

On stream
On time
with Capper-Neill
On site

FINANCIAL TIMES

مكتبة الشرق

PUBLISHED IN LONDON AND FRANKFURT

Monday April 2 1979

THE UNIVERSITY OF JORDAN
LIBRARY
ACC. NO. 28008
CLASS 12 JAN 1981
DATE 12 JAN 1981

for
ring
HE
steel
samson
coinbrook 31315

CONTINENTAL SELLING PRICES: AUSTRIA Sch 15; BELGIUM Fr 35; DENMARK Kr 3.5; FRANCE F 3.5; GERMANY DM 2.0; ITALY L 6.0; NETHERLANDS Fl 2.0; NORWAY Kr 5.5; PORTUGAL Esc 20; SPAIN Ptas 50; SWEDEN Kr 3.25; SWITZERLAND Fr 2.0; DRE 20p

NEWS SUMMARY

GENERAL

Beaten Italian Premier resigns

A new Italian coalition government of Christian Democrats, Republicans and Socialists was defeated in the confidence debate at the end of the week, opening the way for an early general election.

After the 150-149 vote, Sir Giulio Andreotti, Prime Minister, tendered his resignation to President Pertini, the Italian President.

Sir Pertini is now expected to dissolve Parliament to call a new general election. The election is expected to be held in June.

Attack planned
London exile forces yesterday aimed that they were still in position to take the capital.

Kampala in spite of continued reports that they had been driven back 20 miles from the city in an attempt to capture it spearheaded by Libyan troops supporting President Idi Amin.

Bomb hurts four
A bomb explosion yesterday in the centre of Omaha, County, injured a policeman and three civilians, and damaged a shop front. Police said they were clearing the area, warning when the bomb exploded.

Hostage freed
Salvador guerrillas have freed the Japanese businessman held hostage in El Salvador since last month. The guerrillas said they had freed him at the same time as unknown.

Public vote
Ayatollah Khomeini yesterday proclaimed an Islamic Republic after the results of the two-day referendum showed 97 per cent in favour of the move. At the end of voting three soldiers were killed and another wounded by gunfire outside a Tehran station.

Therrilla theory
Police believe thieves stole about £500,000 worth of gold and platinum from the Rome express could have been urban guerrillas. The thieves stopped the train by using an electronic device to change the signal, and unhocked the train.

Portage feared
The Arctic winter is likely to be the latest wet, cold winter in preventing saving. The winter has National Bank.

Capital joke
Londoners to the Capital fell for the station's joke. They jammed a switchboard with protest after an announcement that the Government planned to sell the next two Thursdays.

Merfly ...
A toll in the Golborne area disaster two weeks ago yesterday to 10 with the 10 in hospital of Raymond 1.28.

Relief of a light aircraft since Friday was found today in Clwyd, Wales. Both it and passenger were dead.

BUSINESS

Row hits pay talks for civil servants

CIVIL SERVICE'S two biggest unions decided yesterday to try to dismantle the whole national negotiating machinery for Britain's 600,000 civil servants in a bout of inter-union wrangling.

Today, civil servants are staging a one-day strike, which is likely to affect civil aviation, courts and government services.

UK INDUSTRY'S confidence about economic prospects continued to decline last month, according to the FT survey of business opinion. Confidence remains at the lowest level since the end of 1976, when the International Monetary Fund loan package was being negotiated.

EEC FINANCE and Foreign Ministers today began a meeting in Luxembourg to discuss the Community's budget and European political problems. The British team, led by Dr. David Owen, the Foreign Secretary, is expected to protest at the contribution levied from Britain.

GOVERNMENT funds of about £100m-£150m are expected to be announced today for BL, formerly British Leyland, and the way will be cleared for the Industry Bill to receive Royal Assent giving the NEB a borrowing ceiling of £4.5bn.

OPEC price rise
takes effect
OPEC OIL PRICES rose by an average 17 per cent yesterday, adding to the cost of imports.

STERLING'S strength is Britain's biggest economic problem at present, according to a forecast by a group of Cambridge economists.

BANK LENDING to manufacturing industry rose sharply in the three months to mid-February, although the Bank of England's figures are likely to have been boosted by industrial disputes.

ROLLS-ROYCE MOTORS has started talks with U.S. Teledyne Continental Motors Corp. about a possible licence agreement to make R-R military diesel engines in the U.S.

LABOUR TEAMSTERS' union in the U.S. announced that it would immediately start selective strikes against American road haulage concerns following a breakdown in pay talks.

OFFICIAL PAY review body may recommend to the Government in about a month to give salary increases of 5-10 per cent to chairmen of nationalised industries and top civil servants.

COMPANIES BROKEN HILL Proprietary, Australia's largest company, is to make a one-for-five scrip issue, its first since 1974, following a sharp jump in profit for the November half-year to A\$87m (£47.8m) which exceeds the full 1977-78 profits.

LAIRD GROUP second half profits rose to £8.29m (£5.08m) bringing 1978's pre-tax profit to £11.12m (£9.09m).

Tenants' families and the Rent Acts ... 12
Surveys: South Korea 15-26;
Berlin ... 33-36
Editorial Comment: Northern Ireland; EEC farm prices ... 14
Lombard: Samuel Brittan on wage indexation ... 12

BL in talks with Japanese group on UK venture

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT

Talks are taking place between BL, formerly British Leyland, and a Japanese company about collaboration on car assembly in the UK.

Mr. Michael Edwards, BL chairman, has called a conference of senior executives and union leaders in London next Monday at which details of any possible deal are expected to be discussed.

BL has made no secret of the need for some form of collaboration or partnership to guarantee the long-term viability of its car production.

The obvious weakness is a middle-range car, where the LC-10 replacement, for the Marina and Allegro, scheduled for Cowley, Oxford, is not expected to be ready for the market until early 1983.

Shortage of technical resources has delayed development of the new car and raised doubts as to whether BL will be able to generate enough finance for the project.

Hopes of an early link with Renault, the French State company, have faded. Talks about joint ventures in component manufacture and assembly have made little progress.

The obvious advantage for the Japanese of co-operation with BL would be to sidestep protest about foreign imports. Conversely, BL would benefit from the Japanese car industry's expertise in quality control.

But both Mr. Mervyn Rees, and Mr. David Howell, a Conservative front bench spokesman on Home Affairs, stressed that terrorist activities should not be allowed to interfere with the election.

Nevertheless, Mr. Rees' death cast a shadow over the weekend and the unofficial campaign got off to a muted start. MPs were still clearly shocked by the incident.

Conservative Press advertisements for the Sunday papers were cancelled because of Mr. Rees' death and Mrs. Thatcher seems unlikely to campaign publicly until his funeral on Wednesday or Thursday.

Mrs. Thatcher's hopes of winning a clear majority of May 3 were given a further boost yesterday by an opinion poll carried out for London Weekend Television in 100 of the most marginal seats in Britain.

The poll, which will be repeated by MORFAN for the Weekend World programme each week throughout the campaign, showed Tories could expect to win the election.

The survey also showed the voters in these key constituencies thought the Conservatives would be the best party to lead the country.

The Conservatives' campaign to start until April 9, but by politicians this week will be seen in the context of the election—introducing the Chancellery's introduction to the agreement.

It will then be left to individual airlines to determine what level of rises is most appropriate to the prevailing economic circumstances. Suggestions that the increases might be as much as 10 per cent were discounted over the weekend by IATA.

Carter inspects leaking N-plant

By David Buchan in Washington

PRESIDENT CARTER yesterday flew to the crippled Pennsylvania nuclear plant, whose reactor was reported stable and cooling very slowly—but still plagued by a build-up of hydrogen gas inside.

The inspection tour by the President reflects the intense national concern focussed on the Three Mile Island plant since it was hit by an accident last Wednesday and potentially dangerous complications since.

Four workers of Metropolitan-Edison, the power company operating the plant, have been exposed on the site to more radiation than is considered safe over a three-month period.

Low-level radioactive gas is still escaping to a wider area around the plant.

Pregnant women and young children have been advised by the Governor of Pennsylvania to stay at least five miles from the plant. In all, a couple of thousand people are believed to have left the immediate area.

Mr. Joseph Hendrie, chairman of the Nuclear Regulatory Commission (NRC), which is co-ordinating the attempted shut-down of the plant, said steps to get rid of the hydrogen gas bubble inside the reactor within the next day or so might entail evacuating all people 10 to 20 miles downwind of the plant, sited on an island in the Susquehanna river.

The nuclear accident and public fears about its aftermath will inevitably be heard by the President's expected to issue shortly.

Mr. Carter, who visited the site of a Canadian nuclear accident in 1976 while a nuclear engineer in the U.S. Navy, inspected the reactor's control rods after the NRC said they were not there.

Mr. Harold Denton, the NRC's director of reactor regulation, said that further inspection of the Three Mile Island plant would be needed before any action was taken to close down eight other reactors of an identical design.

Thirteen anti-nuclear demonstrators were arrested on Saturday for climbing the fence of one of those eight reactors in California.

Foreign governments—as well as pro and anti-nuclear lobbies abroad—have expressed keen interest and concern in the continued on Back Page.

Curfew in Middletown, Page 2
U.S. reactor disaster—threat to nuclear policy, Page 14

Arab League decides to boycott Egypt

BY ROGER MATTHEWS IN BAGHDAD

A DECISION by the Arab League at the weekend to impose an almost total political, diplomatic and economic boycott on Egypt is seen in Iraq as a decisive switch in the Arab world's balance of power.

The meeting forced Saudi Arabia and the other moderate oil-producing Gulf states to join more militant Arab countries in working directly against the Egyptian-Israeli peace treaty and against efforts by the U.S. to make the treaty a cornerstone for wider settlements in the Middle East.

The agreement by 19 of the League's 21 members was greeted as a triumph for Arab unity.

Sudan and Oman did not agree. They have consistently supported President Sadat's peace initiative and sent no representatives to Baghdad.

For the Palestine Liberation Organisation, the outcome, after five days of intensive bargaining by foreign and Economic Ministers, was hailed as a "great victory."

Saudi's price
For Prince Saud Al-Faisal, the Saudi Foreign Minister, it was an occasion of "regret and sadness" that President Anwar Sadat had made such decisions necessary.

Saudi Arabia did not believe that having to take such sanctions against Egypt was a cause for rejoicing, but it would implement all the decisions reached at the conference.

Iraq and Syria, which effectively led the opposition to President Sadat's peace effort, have every reason to feel satisfied. They consider their achievements the "minimum acceptable," however.

Nothing prevents individual states from imposing even tougher action against Egypt, although it seems that formal measures against the U.S. as the "architect" of the peace treaty, will not be taken. That may be part of the price exacted by the Saudis.

A positive aspect, as seen by the Saudis, may be that the conference decisions will force the U.S. to be much stricter with Israel in the tripartite negotiations, starting in three weeks on the autonomy plan for the occupied West Bank and Gaza Strip.

The full effect of the sanctions will only become clear over the next few months and many detailed decisions remain to be taken. The Arab Economic Office in Damascus has responsibility for defining individual elements of the boycott.

The main decisions include suspension of Egypt's membership of the Arab League; removal of Arab League headquarters from Cairo to Tunis within two months; and immediate withdrawal of Arab ambassadors from Cairo.

Diplomatic relations are to be cut in a month after constitutional formalities in each country. It is widely expected, however, that many Arab countries will maintain sizeable interest sections in Egypt, effectively for diplomatic work.

Loans, bank deposits, guarantees or financial, material or technical contributions to the Egyptian Government or related bodies are to end. Economic aid from Arab funds is to be banned.

Arab joint ventures with the Egyptian Government or its institutions must be halted. This might affect the Arab Organisation for Industrialisation, under which an armaments industry is being built up.

Work is advanced in Egypt for production of the British Swingfire anti-tank missile and the Westland Lynx helicopter, in a \$400m deal.

Arab Governments and their institutions are to refrain from taking shares or participating in "general debt" issued by the Egyptian Government.

As Egypt has agreed to provide Israel with oil, Arab countries will refuse oil to Egypt. Commercial transactions with the Egyptian Government and companies dealing with Israel are banned.

Special care will, however, be taken to maintain good relations with individual Egyptians working in Arab countries.

Minimum level
The United Nations will be asked to transfer its regional offices from Cairo. Members at the conference will seek Egypt's suspension from the Non-Aligned Movement, the Organisation of African Unity and the Islamic Conference.

The scope of those decisions goes beyond the "minimum level" agreed at the Baghdad summit last November and must come as a serious psychological blow to President Sadat. It makes his financial reliance on the U.S., supplying \$1bn a year aid, even greater and means that the Arab safety net provided in the past by Saudi Arabia, Kuwait, Qatar and Abu Dhabi has been removed, placing even greater emphasis on successful economic policies at home.

To: Coventry Climax Limited, Sandy Lane,
Coventry CV1 4DX. Tel: Coventry (0203) 27711.
Telex: 311192.

Name _____
Position _____
Company _____
Address _____

SHORT CUT TO A BETTER SERVICE.



Just snip the coupon,
find out how we can keep
your Climax truck serviced
in the peak of condition.
Send for free details. We'll
tell you all about our many
servicing schemes.

Climax

Thorn considers U.S. purchase

BY JOHN LLOYD

THORN Electrical Industries, one of the UK's leading electronics and TV set manufacturers, is understood to be conducting serious negotiations for the purchase of a medium-sized U.S. company, Modular Computer Systems, of Fort Lauderdale, Florida.

The U.S. company, which had sales of \$65m last year and employs 1,200 people, manufactures computerised process control equipment. Its customers include Union Carbide and International Telephone and Telegraph.

It has subsidiaries in France, Germany and the UK. The UK plant at Wokingham, Berkshire, recently opened a test facility for the company's products. Further expansion, in either the UK or the Irish Republic, is planned.

A spokesman for Modular Computer Systems said that three companies—two large multinationals and a private organisation—were interested in buying the company, though the private company's interest was now "dormant." Both multinationals were interested in an outright purchase.

Thorn would make no comment on the possible purchase, but said that it was examining a number of opportunities in the U.S. Thorn had reserves of £192.7m at the end of the 1977-78 financial year. In the same year, it showed a pre-tax profit of £110m on sales of £1.1bn, up from a profit of £102m on sales of £983m the previous year.

Last week it announced the appointment of Mr. Peter Laister as managing director. He succeeds Mr. Jack Strowger in August. Mr. Laister, managing director of Ellerman, has had senior executive experience in the U.S. as chairman of a British Oxygen holding company after BOC acquired Airco.

THE UNITED STATES DEBENTURE CORPORATION LIMITED

Year Ended 31st January, 1979.

Extracts from the Directors' Report.

Main Features	1979	1978
Gross Revenue	£5,041,848	£4,604,895
Per Ordinary 25p Stock Unit—		
Earnings—Basic	4.21p	3.77p
Earnings—Fully diluted	4.19p	3.74p
Dividend	4.05p	3.52p
Net Assets	£88,308,218	£77,884,414
Net Asset Value per Ordinary 25p Stock Unit—		
Basic	121.6p	108.2p
Fully diluted	121.1p	105.7p

Dividend and Revenue

Your Board are pleased to recommend that the total net dividend per stock unit for the year be raised 15.1 per cent. to 4.05p. This increase compares favourably with the 9.3 per cent. rise in the Retail Price Index during the year. The advance in your dividend can be directly attributed to the 13.4 per cent. expansion of other revenue available to Ordinary stockholders to a record level of £2,882 million.

Over the last ten years, your Company's gross dividend has risen by 154.5 per cent. compared with a 129.1 per cent. rise in the national dividend on the Financial Times All Share Index.

During the year, the total net assets of your Company advanced by 13.7 per cent. to £88,308 million. The underlying performance of our two principal areas of investment, namely the United Kingdom and North America, are detailed below.

The value of the United Kingdom portfolio grew by 8.2 per cent. compared with the 9.6 per cent. increase in the Financial Times All Share Index for the same period. Whilst this comparison is perhaps a little disappointing, it should be borne in mind that this index contains 750 constituents, many of which are very small companies. By contrast, the Financial Times Industrial Index, representing thirty large companies, was a bare 0.1 per cent. higher for the same period.

The North American portfolio advanced by 24.5 per cent. This compared with a 23.9 per cent. increase in the Standard & Poor's Composite Index and a 29.1 per cent. increase in the Toronto Composite Index. Both of these indices being adjusted for movements in the investment currency premium and the exchange rate. In making these comparisons, it should be noted that your Company's investments in the United States of America are valued at more than five times those in Canada. The percentage of total assets invested in North America rose to 35.7 per cent. (1978: 32.4 per cent.), whilst the percentage in the United Kingdom decreased to 63.5 per cent. (1978: 66.5 per cent.). These percentage changes were almost entirely due to relative Stock Market movements together with the marked 66.5 per cent. rise in the investment currency premium which now accounts for 11.6 per cent. of total net assets.

The 1978 Finance Act introduced legislation lowering the tax on Capital Gains within Investment Trusts from 17 per cent. to 10 per cent. retrospective to April, 1977. This legislation was most welcome.

Energy
The classification and distribution of net assets shows that 15.1 per cent. of total net assets were invested in the oil and gas exploration sector, both in the United Kingdom and North America. This is in accordance with our declared policy of an above average portfolio weighting in energy and energy related stocks. Only time will tell the extent to which the new regime in Iran will restore lost production, but it is comforting that many of the energy company shareholdings in your Company own and stand to benefit from the increased potential worth of their known reserves of oil, gas and coal.

Summary
We believe that the Stock Markets of the United Kingdom, the United States of America and Canada will all be at higher levels in a year's time. However, in the shorter term, there may well be reactions to lower levels. Nevertheless, we believe that conditions exist in these three areas of investment which are conducive to improvement in share markets over the longer term.

Policy
Both within and outside the Investment Trust movement there has been much discussion on the specific roles that Investment Trusts have to play. At such a time, it would therefore seem appropriate to re-state the policy of your Company and to portray its character. Our objects continue to be to provide a rate of increase in dividend income in excess of the national inflation rate whilst attaining an acceptable rate of appreciation in the Company's investment assets. It is intended that these objectives should be achieved through the medium of investment in the United Kingdom, the United States of America and Canada, principally in equities. It is not the present intention of your Company to invest in a significant way, in other areas. We like to feel that these policies are in accordance with the long-term requirements of our shareholders, both private and institutional.

The Annual General Meeting will be held on 16th May, 1979 in London.

OVERSEAS NEWS

Curfew and geiger counters in Middletown

THESE DAYS there is a 9 p.m. to 7 a.m. curfew in Middletown, Pennsylvania, only a few thousand yards from the stricken nuclear reactor that squats ominously out in the broad Susquehanna River, still spewing out plumes of radioactive gas and vapour. Mr. Robert Reid, the town's mayor, ordered the curfew—not because the governor of his State had advised people to stay indoors as much as possible since Wednesday's nuclear accident—but to prevent looting. So many of its 11,000 population have left Middletown that their empty houses

invite pilfering. Asked what he would do with looters, Mr. Reid, who boasts of being Pennsylvania's only black mayor, said half-seriously "shoot 'em."

His reaction is typical of the area, situated between the site of that 19th century bloodbath, Gettysburg, and the Pennsylvania Dutch country to the east, where fundamentalist Amish and Mennonite sects regard buttons, let alone nuclear generators, as dangerously new-fangled. Torn between the now very real danger of radiation, and a stolid, workmanlike view that nuclear power, like any other energy-producing busi-

ness, is risky but necessary, the 150,000 people within 10 miles of the damaged reactor have not panicked.

Several thousand have left the area to stay with friends or to go to work elsewhere.

At Hershey (better known as the chocolate-making capital of America), had any customers by this weekend—130 families and children with no where else to go.

David Buchan reports from the scene of America's worst nuclear accident

take early holidays, and the 70,000 inhabitants of Harrisburg were jolted by a general alarm siren accidentally set off in the Pennsylvania State capital on Friday. But only one evacuation

in Middletown, have heard Nuclear Regulatory Commission officials estimate that the accident has increased local residents' chances of cancer, though only by one or two cases for every 10,000 of them exposed to 1,000 millirems of radiation—a level the NRC does not think will occur—and the area's farmers have been alarmed by the report that at least one supermarket chain, Safeway, has stopped buying Pennsylvania milk.

The country's resources are now mobilised to deal with the accident, following President Carter's advice to everyone "to

err on the side of caution and safety." Top NRC inspectors from Washington are supervising the operation of Metropolitan Edison, the company that runs the plant. The Energy Department is present in force.

The inquiry on the accident, and by the start of the week no one had much time to spare when it would end—will be tried chiefly in Washington by the NRC and Congress. Mr. Reid, the Middletown mayor, says that he and his local officials will want substantial reassurances before plant ever starts up again.

Peking decree silences wallposter dissidents

BY JOHN HOFFMANN IN PEKING

THE PEKING leadership has effectively silenced the voice of dissidence and democracy in the city, both by decree and by swiftly erasing the wallposters which were their visible evidence.

Laneways, walls in Peking's main shopping streets and construction-site fences were conspicuously unadorned yesterday following a city-wide clean-up.

Wallposters remained at the "Wall of Democracy" at the city's west end, and an unusually big crowd of readers gathered there yesterday, realising that this was now

their only canvas for free expression.

The Communist Party leadership has made it clear that expression is not to be as free as in the past few months. A "public notice" circulated quietly a few days ago prohibits slogans, wallposters, publications and photographs that oppose socialism, proletarian dictatorship, party leadership or Maoism.

An announcement printed on the front page of the local newspaper Peking Daily yesterday called on the public to help police enforce the rules and

warned that violators faced "physical labour, education and discipline."

The measures, which the paper said had been adopted two days ago by the Peking Revolutionary Committee (city council), followed similar steps by Shanghai authorities earlier this month.

Demonstrations are to be supervised by police and disturbances in Government institutions are forbidden.

The new moves are a tough suppression of the wave of liberalism which has gathered strength in Peking since last year.

THE ARAB LEAGUE BOYCOTT

Egypt in political isolation

BY OUR CAIRO CORRESPONDENT

POLITICAL isolation, including the removal of the Arab League headquarters to Tunis, is likely to limit Egypt more than the economic sanctions passed by the Arab League in Baghdad.

Trade with the Arab world, accounts for only about 8 per cent. of its total trade, and, though all boycott would be ineffective because Egypt is almost self-sufficient in oil.

Calls to withdraw Arab deposits are unlikely to affect Arab banks, which have operations in Cairo, Beirut, Baghdad, the Libya, Tunisia, a 25 per cent. stake in the Arab International Bank, the oldest offshore bank in Cairo, even though it fought a bloody four-day war with Egypt in July 1977 and has had no diplomatic since.

Kuwait, Bahrain and Saudi Arabia yesterday announced that their ambassadors were being withdrawn from Cairo and the

Tunisian ambassador unexpectedly left for home.

More problematic is the fate of \$2,000m of Central Bank Deposits held by Kuwait and Saudi Arabia in Egypt. Attempts to withdraw these funds before time would be stoutly resisted by the Egyptian authorities.

Meanwhile Cairo is preparing to greet Mr. Menachem Begin, the Israeli Prime Minister, who is due here today on a 24-hour visit. Israeli officials have been asked to keep the visit "as quiet as possible."

Mr. Begin will not address the People's Assembly as originally hoped.

Anthony McDermott and Michael Tizay add from Damascus: Syrian Government officials yesterday welcomed the Arab League resolutions but

defined them only as a required minimum, as provided expressly in the clause permitting each country to do more if it wants.

Arab diplomats here said that Syria had gained time in which to concentrate on isolating Egypt while trying to avoid a military confrontation with Israel.

They were happy that Saudi Arabia's agreement to the boycott could provide a potential link with the U.S. and that this show of Arab support reduced Syria's political dependence on the Soviet Union.

Nasser Kaddour, the Syrian Foreign Minister, confirmed that Syria was considering withdrawing its 26,000 peace-keeping troops from Lebanon. There is concern here that Israel might provoke a confrontation in Lebanon with Syria, to test Egypt's adherence to the treaty.

Iran votes for Islam republic

TEHRAN—Ayatollah Ruhollah Khomeini announced yesterday that Iranians had voted "unanimously" for the transformation of the nation into an Islamic republic, according to the state radio. AP reports from Tehran. He decreed that April 1, henceforth be known as "Republic day" in honour of the result of the nation's referendum.

Namibia talks start

Mr. P. W. Botha, the South African Prime Minister, and Mr. R. F. Pik Botha, the Foreign Minister, will hold talks today with the South Africa-sponsored constituent assembly in Namibia to decide whether or not finally to abandon the western efforts for an internationally-acceptable settlement in the territory, Quenlin Peel writes from Johannesburg.

Bhutto 'resigned'

Mr. Zulfikar Ali Bhutto, the former Pakistan Prime Minister, was yesterday reported resigned to his fate on the gallows—despite pleas for mercy from a former Ministerial colleague. Reuter reports from Islamabad.

Chirac re-elected as Gaullist party president

BY ROBERT MAUTHNER IN PARIS

M. JACQUES CHIRAC was re-elected President of the Gaullist RPR Party on Saturday at an emotion-charged national conference during which he strongly attacked both the Government's economic policies and the Common Market.

The former Prime Minister, who resigned in 1976 after policy differences with President Giscard d'Estaing, was the only candidate running for the Gaullist leadership and was re-elected by 97 per cent. of delegates' votes.

M. Chirac was particularly scathing about the way the European Community, which he said was "not functioning."

The European institution had proved to be impossible both in dealing with internal community problems and with threats from outside. The Brussels Commission, according to M. Chirac, had refused to take effective measures to solve the crisis of the steel industry. It had also stood by power- less while certain of France's partners—a clear reference to the UK—had blocked common decisions.

Referring to the French Government's industrial restructuring schemes, particularly the reorganisation of the steel industry, M. Chirac said that the authorities had acted much too brutally. While it was normal that in a modern economy certain necessary adjustments had to be made, it was unjust and shocking that entire regions should be victimised and their workers reduced to a state of despair.

If the Government, which is dependent on Gaullist Parliamentary support, had gone too far in its industrial reconversion policies, it had been much too restrictive in its general economic policies, M. Chirac said.



They're Off in the Electoral Stakes

The party returning the greater number of seats to Parliament

1-4	Conservative	Labour	3-1
To win and have an Overall Majority			
2-5	Conservative	Labour	8-1
To win and have no Overall Majority			
7-2	Conservative	Labour	4-1

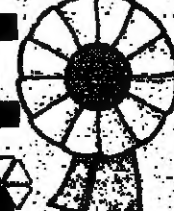
All wagers accepted on the General Election are subject to the stipulation that all Northern Ireland candidates and the Speaker will be treated as others. Prices subject to fluctuation. No Postal Bet.

To open a Credit Account, telephone 01-591 5151 (South), 041-552 3626 (North & Scotland), or write to Coral Racing Ltd, Glebe House, Vicarage Drive, Barking, Essex.

Better bet Coral

CORAL RACING

A Division of the Coral Leisure Group



Arab African International Bank



IS PLEASED TO ANNOUNCE THE OPENING OF ITS REPRESENTATIVE OFFICE IN THE UNITED STATES

AT 645 FIFTH AVENUE, NEW YORK, N.Y. 10022

Telephone: (212) 755-4810

John J. Hoey
New York Representative

مصارف الشرق الأوسط

U.S. airline stops flights

By Stewart Fleming in New York

WIDESPREAD disruption is threatened to air travellers across the United States as a result of a decision by United Airlines to cancel all flights until April 9. The nation's largest carrier takes an average of 130,000 passengers a day to 110 cities.

Some 18,000 mechanics, members of the International Association of Machinists and Aerospace Workers, went on strike on Saturday over a wage claim. Although United has offered a 30 per cent increase over three years, the workers want an unlimited cost of living protection clause.

The 30 per cent increase, well above the Carter Administration's anti-inflation guidelines, is allowed because of an earlier settlement in the airline industry, before the wage guideline policy came into effect.

FINANCIAL TIMES, published daily except Sundays and holidays. U.S. subscription rates \$385.00 per annum. Second class postage paid at New York, N.Y. and at additional mailing centres.

Brazil concludes new oil supply deal with Iran

BY DIANA SMITH IN RIO DE JANEIRO

THE NATIONAL Iranian Oil Company (NIOC) will ship over 4m barrels of oil to Brazil early this month.

The consignment is part of a revised contract between Brazil's oil monopoly, Petrobras, and NIOC for supplies of 200,000 barrels a day until the end of this year. Last year, Petrobras imported 150,000 b/d from the NIOC, then Brazil's third largest foreign supplier of crude.

The political crisis in Iran placed severe strains on Brazil's oil stocks which, by early March, were down to 40 days' forward supplies. Thus, a new agreement with NIOC was of the utmost urgency.

While several industrialised nations faced the risk of losing oil supplies from Iran, Petrobras had a relatively strong bargaining point—it had never used intermediaries in its trading with Iran and always dealt directly with the NIOC.

This point appears to have been appreciated by the NIOC since not only did it agree to resume and, in fact, increase oil shipments to Brazil but, after last week's OPEC meetings, Iranian officials hinted that Brazil would be one of the few countries allowed to purchase Iranian oil at less than \$15 a barrel.

While the deal with Iran has eased the strain on Brazil's

stocks, the financial strain of the general OPEC increases will do nothing to help an already overburdened imports bill. Petrobras calculates that the increases will add a net \$250m to this year's oil imports, bringing the gross imported crude bill to close on \$5bn in 1979.

ENI visit to Mexico

BY RUPERT CORNWELL IN ROME

SIG. GIORGIO MAZZANTI, the new president of ENI, the Italian state hydrocarbons agency, is currently on a trip to Mexico to sound out the possibilities of securing future and supplies from what is shortly expected to become one of the world's leading oil exporting nations.

The trip of Sig. Mazzanti, who is accompanied by Sig. Enzo Barbaglia, president of the group's refining offshoot AGIP, follows similar visits to Libya, Iraq and Iran since he took over as head of the group two months ago.

It was reported here that one of the aims of his trip will be to explore whether scope exists for contracting for oil imports in exchange for supplies of Italian know-how and equipment to speed the development of Mexico's energy industry.

Sig. Mazzanti will be seeing

senior officials at Pemex, the Mexican state oil corporation. Only last week Pemex released new estimates suggesting that the country's potential reserve could top 200bn barrels against the current proven level of 41b barrels.

Italy, as one of the Western nations most dependent on oil imports, badly needs to ensure both secure supplies and additional outlets for its exports. The latest round of OPEC price increases are estimated to add a further £1,000bn (£580m) to its annual oil bill, and also give a further push to inflation.

There is again renewed speculation in Italy about an increase in fuel prices (including petrol) and/or direct measures to cut energy consumption. However, the picture is complicated by the likelihood of early general elections here.

Leading British industrialists to visit S. Korea

BY MARGARET HUGHES

A TEAM of 15 leading British industrialists, led by Sir Kenneth Keith, chairman of Rolls-Royce, is to visit South Korea from May 7 to 11.

This is the first time that such a high level mission from Britain has visited South Korea and reflects the growing importance of this country as an export market. The British Overseas Trade Board said it had arranged the mission to demonstrate that British industry was interested "at the highest level" in developing trade and industrial co-operation with South Korea.

During the five-day visit, mission members representing such companies as the Dowty Group, Hawker Siddeley, Hill Samuel, ICI, Lazards, NEI, and RTZ will have meetings with Government ministers and senior businessmen. The BOTB is also arranging in conjunction with the Machine Tool Trades Association an all-British machine tools exhibition in

Seoul from May 21 to 26. More than 50 companies will be participating. The BOTB is sponsoring a further 15 trade missions to South Korea later this year.

Britain increased its exports to South Korea by 70 per cent to £130m. Despite this success, Britain's share of the market decreased from 1.4 per cent in 1977 to 1.25 per cent in 1978 (first nine months). It is faced with fierce competition not only from the traditional suppliers—Japan and the U.S.—but from West Germany and France.

The Department of Trade is anxious that British companies do not lose out in this important market where the GNP (at current prices) has risen from \$17.2bn in 1974 to \$38.3bn last year and a forecast \$47.5bn this year. It points out that the South Korean Government is anxious to decrease its dependence on its traditional suppliers.

S. Korea Survey, Pages 15 to 26

Liberians attack France over ship boycott incident

BY IAN HARGREAVES

LIBERIA has protested strongly to the French Government about its failure to intervene in a ship boycott incident reminiscent of the Globik Venus affair two years ago.

According to the Liberians, the French police refused to implement a High Court injunction demanding the release from Boulogne Harbour of a vessel flying the country's flag. So far, the French Government has not responded to the Liberian request for an explanation of the incident.

The trouble began at the end of February when, following contacts between the ship's Indian crew and representatives of the International Transport Workers Federation (ITF), the seamen came out on strike for ITF pay levels.

Backed by ITF officials, they blockaded the Greek-owned 8,530 grt freighter the Global Med, and at one stage locked the captain and senior officers in a cabin, allegedly without

food and water.

The owner, Trans-Orient Freight Transport Corporation, refused to negotiate with the mutineers, and visits to Boulogne by Mr. George Cooper, Liberia's deputy maritime commissioner, a senior Indian union official and an Indian diplomat from London failed to resolve the matter.

A week ago, the ITF says the owner tried to storm the ship. Tear gas was used by police and one union official was injured. Mr. Cooper says the owner was simply trying to effect a change of crew in order to get the ship out of port.

On Friday, the shipowner's agent agreed to negotiate with the ITF in Boulogne and has, the ITF says, undertaken to provide back pay totalling \$116,126 to cover the difference between the 32 members' contract rate and ITF pay levels during their period of nine months' service. The crew was to be repatriated to India, at the owner's

expense, over the weekend and a new crew will, says the ITF, be employed at ITF rates. The ship is expected to sail from Boulogne this week.

Mr. Cooper said his Government was angry at another example of Liberia's legitimate rights being ignored by the French authorities. France is known for its extremely hard line against flag of convenience shipping operations.

The owners' agent yesterday could not confirm the pre-strike level of pay of the Indian ratings, but the ITF said that basic wage was around £50 per month, with an effective rate of about twice this amount.

In the past few months, Liberia has been engaged in a vigorous diplomatic campaign to safeguard the position of its fleet—the largest in the world—against ITF attacks.

The ITF has said that it will step up the attacks, partly to counter this diplomatic offensive.

SHIPPING REPORT

OPEC rises dampen tanker rates

BY OUR SHIPPING CORRESPONDENT

LAST WEEK'S OPEC price increases had a predictably dampening effect on the oil tanker market, especially in the Gulf.

The Harley Mullion weekly index dropped sharply from worldwide 158 to WS148 and in all the major loading areas except West Africa there was an excess of tonnage compared with available cargoes.

Because of the availability of some cargoes at the old oil prices, some shipowners were able to obtain contracts at well above the going rate, but the overall tone of the markets was dull. The rate for a VLCC loading in the Gulf was down to WS32 by the end of last week.

But with OPEC price-fixing out of the way, tanker brokers are predicting a steadier level of demand for vessels, although rates will continue to depend upon the ability of owners to schedule ship movements so as to avoid long queues of ships in particular areas.

The evidence of the last six

months is that they are succeeding to a surprising extent, with the help of their Oslo-based association Intertanko, in achieving just that.

Another sign of an underlying improvement in the market was the report last week that a Swedish operator has taken a 5-year charter on a 262,000 dwt vessel at \$1,525. An even larger Danish ship of 332,000 dwt was fixed for one year at WS32.5, indicating an expectation of slightly improving markets.

In dry cargo trades, the best indication of buoyancy is the difficulty in obtaining details of charters because of secrecy clauses insisted upon by the charterers.

There have been especially sharp improvements in grain business out of Argentina, where rates for a 30,000 dwt ship on the Far East voyage is more than 30 per cent better than rates paid in January. This represents a useful gain, even allowing for higher marine fuel charges.

There is also a strong level

of inquiry for period charters to counterbalance the effect of volatility in tanker markets, which normally have a marked effect on the rates obtainable by larger bulk carriers.

The most important long-term indicator of all in shipping, the value of second-hand vessels, continues to be positive.

The London-based Faros Shipping company, for example, was able to conclude the sale of the 68,000 dwt bulk carrier Agememnon, built in 1968, at \$6.15m. The same ship was available at \$5.8m a month ago.

Likewise in tankers, a small 19,000 dwt vessel built 18 years ago found a lot of bidders and went for \$2m, which broker Galbraith Wrightson says is \$0.5m more than the same vessel would have been valued at six months ago.

The sales lists do, however, continue to indicate the diminishing fortunes of P & O, Britain's biggest shipping company, which last week sold three 12-year-old cargo liners for \$2m each to Far East buyers.

£200m Indian engines plant

BY K. K. SHARMA IN NEW DELHI

PLANS FOR a major plant costing Rs 3 bn (about £200m) capable of producing 100,000 engines a year have been formulated by India's Ministry of Industry which is now in the process of restructuring the motor sector.

The plans, which will now go to the Cabinet, envisage the import of foreign technology for the manufacture of engines which could then be farmed out to the car companies which currently produce three obsolete models that are nearly 20 years old.

Mr. George Fernandes, Minister of Industry, recently sought to nationalise the motor industry on the grounds that it has made no technological effort to improve its products. His pro-

posal is now being examined by a Janata Party Committee and will then be processed by the Government.

The present plan for making 100,000 engines in the public sector is thought to be part of the restructuring of the industry which will also involve plants making commercial vehicles. These include Ashok Leyland, which plans to import new technology from its principals in Britain, Tata Engineering and Locomotive Company (Telco), Mahindra and Mahindra (producers of jeeps) and others.

The form of the restructuring has still to be decided by the Ministry of Industry which is keen to introduce self-reliance in engines for all units, hence the proposal that the public sector plant be based on a self-

technology. The plan envisages the export of 40,000 engines annually to markets in South East Asia and the Middle East.

Talks on the new engine project have been held mainly with French companies like Peugeot and Citroen but proposals from others are being sought before a final decision is taken.

But plans to attract foreign collaboration for using India as a base for export to developing countries are not making progress, even though labour costs are cheap here and there are already several plants making components for foreign companies which have been involved in discussions feel that costs in India would still be too high for the proposed plants to be competitive with Japanese car companies.

Danes choose Olivetti

BY HILARY BARNES IN COPENHAGEN

THE DANISH savings banks have announced that they will buy about 1,500 computer terminals from Olivetti. The terminals are for delivery in 1981-83. The contract will be worth at least Nkr 250m (about £23.67m).

The decision by the Danish savings banks is a blow to the hopes of Datasab, the Swedish

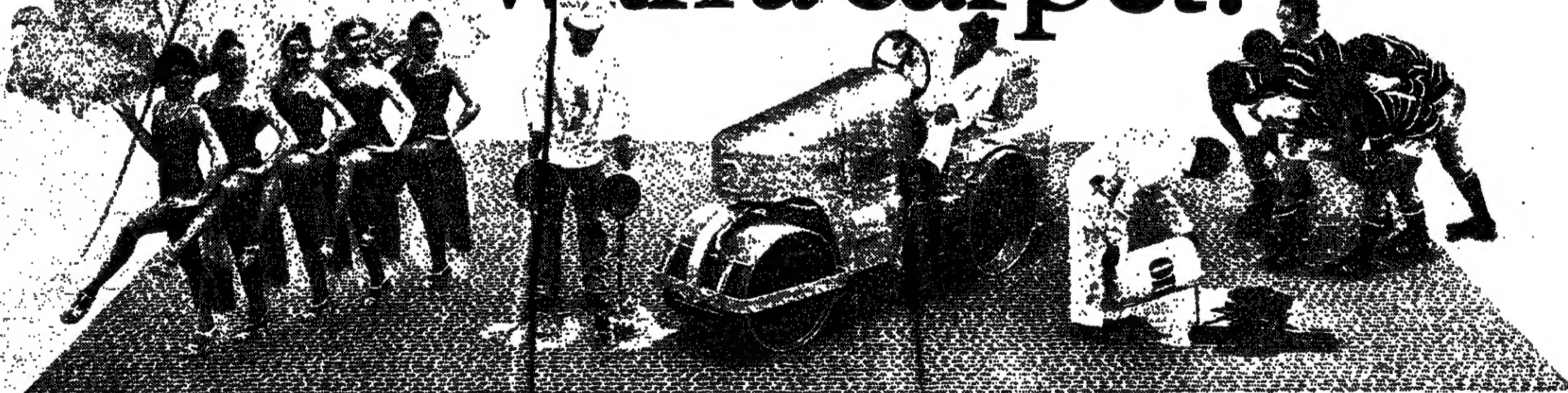
manufacturer, which is half state owned. The Nordic savings banks jointly bought the first generation of terminals from Datasab.

The Danish savings banks however have decided to invest in the second generation some years ahead of savings banks in Norway, Finland and Sweden.

World Economic Indicators

UK	000s %	UNEMPLOYMENT		Jan. 79	Mar. 78
		Mar. 79	Feb. 79		
		1,350.4	1,362.6	1,339.2	1,400.0
		5.7	5.7	5.6	5.9
W. Germany	000s %	Feb. 79	Jan. 79	Dec. 78	Feb. 78
		1,124.0	1,171.4	1,003.7	1,224.3
		5.0	5.1	4.4	5.4
U.S.	000s %	5,881.0	5,883.0	6,012.0	6,090.0
		5.7	5.8	5.9	6.1
Holland	000s %	211.7	211.5	210.5	202.7
		5.1	5.3	5.2	5.1
Japan	000s %	Jan. 79	Dec. 78	Nov. 78	Jan. 78
		1,276.0	1,160.0	1,160.0	1,260.0
		2.0	2.3	2.3	2.0
Belgium	000s %	303.1	300.9	297.1	299.5
		7.6	7.5	7.5	7.5
France	000s %	1,356.2	1,256.4	1,215.3	1,027.7
		5.9	5.5	5.3	4.7
Italy	000s %	Oct. 78	July 78	Apr. 78	Oct. 77
		1,651.0	1,658.0	1,450.0	1,598.0
		7.5	7.5	7.2	8.0

Want to see a great trick with a carpet?



6.00 p.m.

A group of dancing girls can give Flotex more punishment in five minutes than office staff give it in months.

Alphonso cooked up coq au vin and fried potatoes to try on Flotex. That's the treatment it gets in restaurants.

Paddy O'Malley and his roadroller giving Flotex the same kind of treatment it has to stand up to in warehouses.

Jim thought oil would never come off Flotex. Car showroom owners could put him right.

These chaps came off the pitch onto Flotex. That's like scores of customers coming off a wet street into a shop.

6.37 p.m.

Mrs. Wilkinson, cleaner, had no trouble getting the Flotex back into spotless condition with her contract cleaning equipment in just half an hour.

Flotex is the perfect floor covering for a huge variety of contract applications, especially in places where you'd never dream of putting ordinary carpet.

It's already been highly successful in hospitals, offices, shops, car showrooms and even warehouses.

If you find our little demonstration hard to believe, we'll send you our brochure with full specifications plus a piece of Flotex to work on yourself.

Name _____
Address _____
Tel. No. _____
Company _____
Position _____

Post to: Flotex Ltd, FREEPOST, P.O. Box 6, Kettering, Northants.

flotex
Carpet to work on.

FT3

UK NEWS

Reactor turbine system 'chosen'

A REPORT by the Central Policy Review Staff on the choice of turbine for the advanced gas-cooled reactor nuclear power stations at Heysham and Torness is thought to be completed, and to have come down in favour of the "six-exhaust" system.

The review staff was appointed by the Prime Minister to look at the choice of systems last year, largely at the instigation of the General Electric Company (GEC), one of the two UK turbine manufacturers.

The six-exhaust system is the preferred choice of both the Central Electricity Generating Board, which will build Heysham, and the South of Scotland Electricity Board, which will build Torness. Both have said so strongly to the Review Staff in their evidence.

However, it is not so clear which manufacturer will profit from the decision. Both GEC and Northern Engineering Industries make four-exhaust and six-exhaust systems, and both have been asked to submit tenders.

Technical

Northern Engineering has claimed that it has a superior six-exhaust technology and believes it would be the favoured supplier for all four sets for the two stations. The sets are worth about £140m.

GEC has consistently refused to comment on the issue, saying the argument is a highly technical one.

While the Generating Board has made it clear to the Review Staff that it prefers six-exhaust technology, it has not so far as is known, made it clear which manufacturer it prefers. However, its general wish to see rationalisation in the industry, with the Parsons turbine division of Northern Engineering merging with GEC, and the Clarke Chapman boiler-making division merging with Babcock and Wilcox—may influence its choice.

Informal talks between Babcock and Northern Engineering-Clarke Chapman have continued even after a formal breakdown of discussions last year, though no agreement yet seems to have been reached.

More oppose mining complex

BY JOHN LLOYD

OPPOSITION TO the National Coal Board's plans to develop a 10m tonne a year mining complex in the Vale of Belvoir in Leicestershire grew over the weekend as anti-development groups appealed to Nottinghamshire and Leicestershire county councils to join Leicestershire in opposing the NCB's plans.

Mr. Chris Tizzard of the Vale of Belvoir Protection Group said: "We are delighted with Leicestershire's firm and uncompromising statement to oppose the NCB. We would now hope that neighbouring

county and district councils in Nottinghamshire and Lincolnshire will feel free to take similar action."

Last week, Leicestershire council adopted its chief planning officer's recommendation that the Belvoir pits should be opposed both because the NCB had not proved a need for the coal, and because the costs to be borne by the council, for the provision of extra houses, roads, educational and social facilities, would be high.

The anti-development groups have now collected about £52,000 for their defence

fund, to defray the costs of the inquiry to be held later this year. They have retained the services of Mr. Gerald Manners, a reader in Geography at London University who has developed a case against the NCB's general development plan. Plan for Coal, and will also hire mining consultants and geologists.

The NCB thus faces the local groups, the National Farmers Union and Leicestershire County Council, with the possibility of other county councils and other environmental groups declaring their opposition as well.

However, the board believes that recent events—including the crisis in Iran, the rise in the oil price and increased fears over nuclear safety—will sway public opinion its way.

It also believes that without new, highly mechanised colliery developments like Belvoir, and Selby in Yorkshire, it will be unable to approach its production target of 170m tonnes a year by the end of the century, and therefore, be unable to supply oil from coal and substitute natural gas as natural oil and gas supplies run out.

'Rising pound a threat to exports'

BY PETER RIDDELL, ECONOMICS CORRESPONDENT

THE HIGH current value of sterling is Britain's biggest economic problem at present, according to a major new forecast from a group of Cambridge economists.

In the short-term, there should be a neutral budget, whatever the political circumstances, because, apart from oil output, the economy is moving into a mild recession and a tough budget would only make it worse.

These projections come from the Cambridge Economics team which is forecasting model developed by the Cambridge Growth Project, a university team under the direction of Professor Sir Richard Stone and Dr. Terry Barker.

The model differs from many others because it is designed to project the development of 40 individual industries and the economy over a period of 10 years or more.

The Growth Project team is separate from what is known as the New Cambridge School under Mr. Wynne Godley at the Department of Applied Economics. Where they favour depreciation of the pound as one response to Britain's economic problems, Mr. Godley's team has called for import controls.

The Cambridge Econometrics long-term forecasts show "measured optimism" provided the pound does not remain as high as it is today. "A strong pound would hit export competitiveness, and in the mid-1980s, turn potential trade surpluses of £20m into deficits."

However, it is argued that the "spread of the so-called Dutch disease is slow, because indus-

trial contract prices are slow to react to currency changes and actual buying behaviour changes more slowly than the contracts.

"The effects of an over-valued currency can still be felt six years later," the team warns, and among the industries which would be worst affected are steel, paper and board, electrical and instrument engineering, vehicles, glass, chemicals and textiles.

The basic forecast projects a

bright future for many of these sectors provided there is a managed depreciation of sterling.

Most sectors are expected to contract this year and grow faster in the 1980s than they have through the last decade.

Total output, as measured by Gross Domestic Product at 1975 prices, is expected to grow by 0.8 per cent this year following a 3 per cent rise in 1978. Indeed, excluding North Sea output and

investment, there may be a decline of 0.7 per cent, reflecting stock reductions.

Over the next few years the growth of total output is expected to range between 1.7 and 2.3 per cent year, mostly at the bottom end of the spectrum with a slightly faster expansion of real consumer spending.

Cambridge Econometrics, PO Box 114, 21, St. Andrew's Street, Cambridge CB2 3RW.

Public spending reviews urged

BY OUR ECONOMICS CORRESPONDENT

OVERALL REVIEWS of public spending should be undertaken, perhaps every four to six months, in order to assess the effects of cash limits on previous expenditure decisions.

This is urged—in a pamphlet today from the Policy Studies Institute—with a view to using what limited freedom of action exists during a financial year to ensure that the resulting spending pattern is as near as possible to that desired.

The Institute, an independent research body, commissioned a study on the management of public expenditure from Mr. Peter Elise and Mr. Geoffrey Marshall of the University of Sheffield.

They argue that these regular reviews would allow account to be taken of priorities and the potential costs of a lower level of expenditure in real terms.

and whether, in cases where price movements are more favourable than anticipated, it would be desirable and feasible to allow a rise in expenditure.

In real terms, these reviews should be published.

"The Management of Public Expenditure," by Peter Elise and Geoffrey Marshall, price £3.50 from Policy Studies Institute, 1-2, Castle Lane, London SW1E 6DR.

Stockbrokers show wary optimism

BY OUR ECONOMICS CORRESPONDENT

A LARGE new batch of pre-Budget "circulars" from City stockbrokers shows that most are cautiously optimistic about financial and mandatory prospects in 1979-80.

In the first issue of a new quarterly publication entitled Financial Analysis, L. Messel

argues that, assuming £80m public sector borrowing in 1979-80, the growth of sterling M3, the broadly defined money supply, should be 7 per cent, against 9 to 10 per cent in 1978-79.

On that basis, interest rates should fall, with Minimum

Lending Rate in single figures within 12 months, while sterling should remain firm.

In their latest monthly forecast, Phillips and Drew suggest that the current account should be in surplus by £250m and £1bn this year.

Construction output 'likely to stagnate'

BY MICHAEL CASSELL

CONSTRUCTION OUTPUT is expected to stagnate this year, although the economy as a whole will grow, the National Council of Building Material Suppliers says.

Its latest forecasts suggest that the outlook for public-sector housing remains one of the most gloomy. The level of approvals for building new public-sector homes is at its lowest for at least 20 years and housing starts may in the next three years be expected to fall to unprecedentedly low levels.

According to the council, public-sector starts will be limited to about 100,000 in the next three years, partly because Labour and Conservative-controlled councils are reluctant to embark on new housing schemes and partly because of the fresh emphasis on rehabilitation.

The council sees a better outlook for private house building,

although it emphasises that prospects for the availability of housing finance remain uncertain, and it seems unlikely that mortgages will be as readily available as early last year. It nevertheless expects private house-building to continue roughly at last year's levels.

The building material producers do not believe that the hoped-for recovery in public-sector construction work generally will materialise, and expect a slight decline in output until 1981.

Private industrial work, running high last year, is expected to continue encouragingly this year, although the material producers point out that orders are falling off and output will go likewise.

Private commercial work, another bright spot for construction last year, is also expected to have another successful period this year and next, but growth will cease in 1981.

Government housing estimate is 2m short

BY JANICE MACFARLANE

COUNCIL HOUSE construction is at its lowest since 1945 with more than a million people on waiting lists—yet the Government's estimate of 2m new homes in its estimate of English families in need of a home or housing repairs, according to Roof, Shelter's housing magazine.

The magazine states today that not only is the Government's definition of the "hard core" housing problem in need of underestimation, but its projections of investment in the recent Public Expenditure White Paper will leave much of that hard core untouched a decade from now.

It also points out that local authority estimates of the housing shortage are twice as high as those projected by the Department of the Environment, although the department estimated a surplus of 106,000 houses in London by 1982, the

local authority projection was a 128,000 shortage.

The reason for the discrepancy, according to Roof, is that the Government assumes most people who share a house do so willingly, and that there is no housing need for families defined as "overcrowded."

The Environment Department had also failed to take into account the fact that many houses are falling into disrepair, said Roof, although about 120,000 houses a year need repairs costing more than a £1,000.

Counting housing shortage and unsatisfactory dwellings together, the Government estimates that 1.4m English households are in housing need while Roof puts the figure at more than 2.4m. It concludes that the improvement in conditions which took place during the early 1970's will not be continued into the 1980's.

London 'must tempt more international companies'

BY PAUL TAYLOR

LONDON'S POSITION as an important commercial and financial centre in the European Community should be the basis for a "wholehearted campaign" by the new Government and the local authorities to encourage more international companies to establish offices in London, the London Chamber of Commerce and Industry says in a policy statement today.

It describes active encouragement of commerce and industry in London as an essential prerequisite if the capital is to play its proper role in Britain's economic recovery.

Investment in London, it says, often leads to investment elsewhere in the UK, a fact not always remembered in the past when attempts to promote other regions at London's expense have led to serious industrial and social difficulties in the capital while doing little to help the regions.

The chamber, in a list of pri-

orities for an incoming Government, suggests abolishing the Office Development Permit system and reducing controls on change of use for buildings.

It urges encouragement for companies that wish to remain in London to modernise and expand their facilities. National and local government must ensure that such facilities are made available primarily from the private sector.

The chamber repeats its assertion that Government policy should allow designated areas of London, such as Docklands, to have access on equal terms to the opportunities enjoyed by assisted areas.

Its statement also emphasises that if London is to be allowed to realise its full potential, a series of inter-related policies will have to be put into action.

The chamber singles out for urgent consideration education, telecommunications, transport, housing, planning and financing.

Production management 'lacks qualified people'

BY JIM RENNISON

MANUFACTURING industry suffers from a marked lack of well-qualified and ambitious people in production management which is one of the reasons for that occupation's "malaise," says a report published today.

The report, by the British Institute of Management, adds that some industries are better than others in career development of production managers. Chemical-based industries, especially food, drink and tobacco, chemicals and allied products, are ahead of the engineering-based industries.

It is suggested that this may be so because more companies in the process industries are science-based and owned outside the UK than in the manufacturing industries.

Traditional career patterns typified by long service in production, limited experience of other functions and modest

aspirations tend to prevail in industries such as metal manufacture, mechanical engineering, vehicles, aerospace and textiles.

"Such career patterns together with lower educational standards and fewer professionally qualified production managers, are found more in British-owned than foreign-owned companies."

Contemporary manufacturing industry is making increasing technical, economic and social demands. But "attitudes in industry to the nature of the graduate population do not appear to have changed as quickly as the nature of the graduate population itself has changed."

The report recommends four main areas for improvement: upgrading the production manager, improved career structures; better education and training; and more research.

Chrysler adds to Alpine and Avenger ranges

A NEW version of the Alpine car range and two new Avenger models are announced today by Chrysler UK. All will be available only in limited numbers.

The new Alpine Sunseeker is based on the Alpine GL 1440cc but has several extras as standard, including a sun roof and tinted glass. The cost is £4,223.

Based on the Avenger GL 1600cc model, the new Avenger GL 1600, four-door Special saloon and LS 1600 Estate also have special features in their specification.

The price of the GL 1600 Special saloon is £3,478 and the LS 1600 Special Estate costs £3,382.

The price of a new Aston Martin has gone up by £4,900. The specialist car manufacturer yesterday announced a 13 per cent increase on three cars in its range.

The £4,900 rise, with which drivers could buy a new family car, goes on the futuristic Aston Martin Lagonda—pushing it up to £37,500.

When the car was unveiled in late 1978, it had a price tag of £24,500. The first increase added nearly £9,000.

But Aston Martin said it did not think the rise would hit sales—presently one a week. Increases of £3,000 go on the V8 which costs just less than £27,000, and on the V8 Vantage which now costs £29,985.45.

Rolls may make Army engines in U.S.

By Lynton McLean

ROLLS-ROYCE MOTORS has started talks with the U.S. Teledyne Continental Motors Corporation about a possible licence agreement to make Rolls-Royce military diesel engines in the U.S.

The companies have had a manufacturing link for 12 years. Rolls-Royce makes Teledyne's small Continental series of light aircraft engines in Britain under licence.

The proposed venture would open the way for sales of Rolls engines to the U.S. armed forces for the first time. Manufacture would eventually be concentrated in America.

Mr. David Plaster, managing director of Rolls-Royce Motors, which has military engines in Shrewsbury, meets 50 U.S. defence officials and industrialists from Teledyne tomorrow. But he is realistic about chances of instant success.

He wants the Pentagon to consider using a Rolls-Royce diesel as the alternative back-up engine for the XM-1, the next generation of U.S. tank, which now is designed round a U.S. gas turbine from Avco-Lycoming. But Teledyne, its would-be partner, is also producing a diesel, its 1360 model, for the XM-1.

In particular, Rolls-Royce, which has used the XM-1's CV12 military diesel engine. This was designed with funds from the Ministry of Defence for the Shire version of the British Chieftain main battle tank, destined for Iran before the new Islamic Government cancelled the entire order for 1,350 tanks.

No tanks were delivered, although about 100 of the original Shire, fitted with the Rolls engine, were completed by the Royal Ordnance factory at Leeds. Engines for the rest of the tanks have not been made, but Rolls wants to recoup, for the Defence Ministry, the development funds.

Defence officials in Britain are working on the design of the next generation tank, the MBT-30, and there is strong pressure from the U.S. Avco-Lycoming corporation to get its turbine engine accepted for this.

Rolls-Royce wants the MBT-30 to be powered by its CV12 engine and the U.S. campaign is certain to focus attention on the engine's potential.

The company will make its final presentation to the Defence Ministry within two months, officials will decide finally on choice of engine in the next quarter of this year.

£5.75m boost for Welsh industry

WELSH INDUSTRY is to receive £5.75m in loans from the European Investment Bank, a long-term finance institution of the European Community. Three companies share the money to help boost industrial projects.

Tetra Pak Raising is to get £2.6m for seven years to build a factory at Wrexham processing carton paper for food packs, and will initially provide 50 jobs, with 60 more foreseen.

£2.6m for 10 years goes to Todenol to build a mineral wool factory near Bridgend, Glamorgan. This should create some 200 jobs.

Blennau Plastics receives £550,000 over seven years for new factory at Blennau Ffestiniog producing plastic components. It should be fully on stream by 1981, and create about 110 jobs.

The loans have been made in various foreign currencies, and each company has obtained cover against exchange rate fluctuations.

Winter costs National Bus Company £12m

By Janice Macfarlane

THIS YEAR's weather has left the National Bus Company a legacy of problems—a bill of at least £8m for engineering repairs, a further £4m in lost fares, and disrupted services in many of its 30 subsidiary bus companies.

About a third of NBC's 18,000 buses were damaged either by bad weather or accidents during the first three months of the year and today the company appealed to passengers to understand their problems.

"We did our best to keep our bus and coach services going in the Arctic weather and against the odds, but we are struggling to provide a cost-effective service," said Mr. Robert Bragg, NBC's chief executive. "Our maintenance staff is working hard to put things right but cannot be done overnight. We ask passengers to bear with us."

NEARLY 200 employees at the Baxter's meat pie company, Northampton, to lose their jobs because a subsidiary company, Brooks Farm Frozen Food, of Northampton, has been forced to close.

COMPANY NOTICES



BARLOW RAND LIMITED

(Incorporated in the Republic of South Africa)

DECLARATION OF PREFERRED ORDINARY DIVIDEND NO. 2

NOTICE IS HEREBY GIVEN that preferred ordinary dividend No. 2 of 18 cents per preferred ordinary share has been declared, payable in the currency of the Republic of South Africa to holders of preferred ordinary shares registered as such at the close of business on 30 April 1979. Dividend warrants will be posted to those holders entitled thereto on or about 13 June 1979.

For the purpose of determining those holders to whom the dividend will be paid, the transfer books and registers of holders of preferred ordinary shares in South Africa and the United Kingdom will be closed from 21 to 27 April 1979, both days inclusive.

The rate of exchange at which the dividend will be converted into United Kingdom currency for the holders of shares in the United Kingdom Register will be the telegraphic transfer rate of exchange between South Africa and the United Kingdom ruling on the first business day after 28 May 1979.

In terms of the South African Income Tax Act, 1962, as amended, a non-resident shareholder's tax has been imposed on dividends payable to (a) persons other than companies, not ordinarily resident nor carrying on business in South Africa; and (b) companies which are not South African companies.

The Company will accordingly deduct the tax, of an effective rate of 13.49779 per cent, from dividends payable to shareholders whose addresses in the registers are outside the Republic of South Africa.

By Order of the Board
Group Secretary
30 March 1979

NOTICE OF RATE OF INTEREST

U.S. \$25,000,000

BEARER DEPOSITARY RECEIPTS

Representing interests in a

FLOATING RATE CERTIFICATE OF

DEPOSIT DUE 1983

BANCO UNION, C.A.

(A Venezuelan Corporation)

In accordance with the provisions of the Indenture of Trust and Deposit Agreement between Banco Union, C.A., and Citibank, N.A., Trustee and Depositary, dated as of April 1, 1978, notice is hereby given that the rate of interest has been fixed at 11-1/16th% p.a., and that the interest payable on the relevant interest payment date, October 1, 1979, against Coupon No. 3 to the Bearer Depositary Receipt will be U.S.\$ 56.23 and has been computed on the actual number of days elapsed (183) divided by 360.

April 2, 1979
By: Citibank, N.A., London
Reference Agent

CITIBANK

NEGIT S.A.

Société Anonyme

10A, Boulevard Royal

LUXEMBOURG

R.C. Luxembourg 8 829

DIVIDEND NOTICE

Notice is hereby given that, pursuant to a resolution of the Annual General Meeting of Shareholders of NEGIT S.A. on 10th April, 1979, payment of US\$ 0.11 per share will be made to shareholders registered on 13th March, 1979.

Dividend cheques will be mailed to registered shareholders, Luxembourg, 19th March, 1979.

The Paying Agent

Banque de Paris et des Pays-Bas

pour le Grand-Duché de Luxembourg

COMMERZBANK

AKTIENGESellschaft

London Deposit Certificate

Units of £10.10

NOTICE IS HEREBY GIVEN BY S.G. Warburg & Co. Ltd., as Depositary

that holders of the above units are

required to exchange their existing

units for the new units of £10.10

on or before 13th April 1979. The

exchange will be effected through

the offices of S.G. Warburg & Co. Ltd.,

of 15, Abchurch Lane, London, EC4N

3AB, who are authorised to do so by

the Board of Directors of the

Company. The new units will be

issued on or about 13th April 1979.

By Order of the Board

Group Secretary

30 March 1979

Registered Office:

Barlow Rand, Katherine Street,

London E1C 2AB, South Africa.

Transfer Secretaries:

Barlow Rand Limited,

2nd Floor, Devonshire House,

Bramington 2001, South Africa

(P.O. Box 3174, Johannesburg 2017, South Africa).

United Kingdom Register:

Lloyds Bank Limited,

Rugby's Buildings, The Casuarina,

Goring-on-Sea, Worthing,

West Sussex BN12 6DA, England.

SOCIETE NATIONALE INDUSTRIELLE

AEROSPATIALE

10% 1978-1985 FF.100,000,000

FURNISHED TO THE terms and conditions

of the Bonds for a sum of FF.100,000,000

amount of FF.100,000,000 have been

issued by the Company on March 16, 1979

in accordance with the terms of the

Indenture dated March 16, 1979

between the Company and the

Trustees of the Bonds, S.G. Warburg & Co

Report may suggest further rises for top public servants

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

EXTRA SALARY increases of between 5 and 10 per cent may be recommended for nationalised industry chairmen and other top public servants—whose salaries have risen by up to 25 per cent.

The recommendation will be contained in one of three reports from official pay review bodies covering top salaries, the armed forces, and doctors and dentists. Its objective will be to bring pay rises which were assessed last April into line with subsequent increases in inflation and in the pay of comparable occupations in the private sector.

The recommendations will be especially embarrassing for the Government following the industrial unrest among civil servants covered by general pay negotiations.

It is likely that the review bodies for the armed forces and the doctors and dentists will be sent to the General Election before the top salaries report may not arrive until later in May. Yesterday's rises were paid to the chairmen and board members of nationalised industries and other top public servants in the Civil Service, armed forces and the judiciary following last year's report of the Boyle review body.

Wool chiefs seek supremo

Financial Times Reporter

A SUPREMO is to be appointed for the Yorkshire-based wool textile industry.

The post, which is being advertised at a salary of not less than £15,000 a year, is part of a re-organisation which the industry hopes will help boost it in changing trading conditions.

The new supremo, who will have the title of director-general, will be responsible for advising on policy and implementing the decisions of a policy board which is to be set up. He will manage the industry, particularly in its dealings with the Government, the Common Market officials, from now, another direction.

The changes, expected to be put into effect later this year, are a move to unify the industry's trade associations by merging them into a new federation or employers' organisation which will represent the interests of over 600 member companies.

It is felt that the restructuring will give the industry more powerful body in its efforts to prevent further erosion of trade and create a climate for expansion. Mr. Derek Bradbury, a leading member of the industry, said in Bradford: "Our object is to strengthen the organisation of the industry in line with changing economic and commercial conditions."

NEWS ANALYSIS • ROY HODSON REPORTS ON NATIONAL INDUSTRIES AT LOGGERHEADS

Problems still facing British Steel

IRON AND STEEL deliveries in Britain have still not returned to normal. The lingering effects of a severe winter and the road and rail strikes will be felt in the industry for weeks.

The impact upon distribution early this year has been inefficient to rob Sir Charles Ibbotson, chairman of the British Steel Corporation, of hopes that the corporation's estimated £350m loss in 1978-79 might be reversed in time to break even in 1979-80.

British Steel's hard-pressed spokesman for the day dragged the business back into industry, particularly in its dealings with the Government, the Common Market officials, from now, another direction.

The changes, expected to be put into effect later this year, are a move to unify the industry's trade associations by merging them into a new federation or employers' organisation which will represent the interests of over 600 member companies.

It is felt that the restructuring will give the industry more powerful body in its efforts to prevent further erosion of trade and create a climate for expansion.

Mr. Derek Bradbury, a leading member of the industry, said in Bradford: "Our object is to strengthen the organisation of the industry in line with changing economic and commercial conditions."

However, it has spent £37m in pit development in the North-east and in the Kent coalfield. That investment, the Board says, is to meet a demand from Redcar.

The working party agreed upon the special blend of coking coal needed to run the new furnace properly.

The coal needs a closely defined reactivity in terms of its chemical qualities. It needs the physical strength as coke to take the weight of iron ore above it in the giant furnace.

In both areas the Board and British Steel agreed that they were moving into new territory as far as use of coking coal in Britain is concerned.

The working party decided upon the type of coking coal needed but failed to agree on how it should be supplied. The best blend appeared to be a mix of a quarter of home-produced and three-quarters of imported coal.

At that point, the two nationalised industries agreed to disagree as to how the coking coal for Redcar should be provided.

The National Coal Board said that it could provide enough varieties of British-mined coking coal to make a suitable blend equal to the mixture of home and foreign coals. British Steel, unimpressed, decided upon a compromise mixture of

45 per cent home coal and 55 per cent imported.

Two contracts have been signed between British Steel and the Australian coal producers. The first is for 300,000 tonnes of medium volatile coking coal each year until 1981.

The second is for 250,000 tonnes a year for nine years. The prices are less than £30 a tonne.

The contracts give British Steel some of the best coking coal in the world. The experts do not quarrel on that. Moreover, the Australian prices are £10 a tonne less than the best prices offered by the NCB, which has to deep-mine its coal in difficult conditions.

British Steel maintains that its decision was not influenced by the lower Australian price. It says that it chose the coal on strictly technical grounds as the best raw material to run its new and complicated blast furnace in the most efficient way it knows.

There is much mystique and empirical lore about operating a 10,000-tonne-a-day blast furnace. It is an operation on a scale never previously attempted in Europe, even in Japan, experience is limited.

British Steel is naturally anxious to reduce the variables as far as possible before the furnace is lit. One area that it can control is the coking coal specification.

It is prepared to reduce its demand from the 75 per cent/25 per cent combination of foreign-to-home coals to the less efficient 55 per cent/45 per cent formula. But that is as far as it will go.

The principal weakness of the NCB case is that the British coalfields are short of the favoured "301" variety of coking coals, the low and medium volatile variety.

The board would like British Steel to take more of the highly volatile coals ("501" variety) that it can supply. British Steel argues that it would be penalising its investment if it uses high-sulphur content British coal with poor coking qualities.

British Steel buys about 8.5m tonnes of coking coal annually from the board and imports another 1.8m tonnes of special coking coals to obtain the combinations it needs. The new contracts with Australia would increase imports to between 2m and 3m tonnes a year.

Coking coal supplies for the Redcar furnace look like being a test case. If the board wins the right to supply the furnace from home coals, at the expense inevitably of British Steel iron output levels, it will then have every reason to press further to substitute home coals for the remaining 1.8m tonnes a year of coking coal imports.

LABOUR

End national pay talks, says engineers' chief

BY ALAN FINE, LABOUR CORRESPONDENT

THE POSSIBILITY of abandoning national wage negotiations in the engineering industry is suggested today by Mr. John Boyd, general secretary of the Amalgamated Union of Engineering Workers.

Mr. Boyd, writing in his union journal, says that when the AUEW national committee meets later this month it must "surely give some thought" to "repudiating the Engineering Employers Federation and conducting all negotiations on a company basis."

National minimum rates are now negotiated with the EEF and local negotiations which determine actual earnings follow. The engineering unions are unhappy with a national offer made by the EEF last month—increased offers of 10.5 per cent on basic rates in reply to a claim for up to £20.

Mr. Boyd says in his article that employers had shown by their offer that they had "no role to play in our modern, fast-changing society other than to try to keep wage rates at a really low level."

To suggest that a craftsman should have a basic rate of only £45 for a 40-hour week—the value of the employer's offer—"must force all of us to question the usefulness of any more national negotiations in the engineering industry."

Mr. Boyd launches a strong attack on the EEF, accusing the employers of being "oblivious to all that is happening around them, unresponsive to the challenge of change, blind to the wonderful new future which can be for engineering as we move further into the electronic and microprocessor age."

Both unions and employers in the engineering industry have until now valued the national agreement since it provides, in addition to minimum pay rates, common conditions throughout the industry. The unions now want manual workers' conditions of employment harmonised with those of white collar staff and the employers have offered a working party to consider this.

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

B·A·T Industries on the move...

Today, B·A·T Industries Limited move to new Group Headquarters at Windsor House, Victoria Street, S.W.1.

From this new building the management team will continue to guide and plan overall Group strategy to ensure that B·A·T Industries sustains its momentum, remains on the move... throughout the world.

New Group HQ: Windsor House, 50 Victoria Street, London SW1H 0NL. Telephone 01-222 7979. Telex 91595.

Briginshaw defends print union's financial moves

BY NICK GARNETT, LABOUR STAFF

LORD BRIGINSHAW, former general secretary of the National Society of Operative Printers, Graphical and Media Personnel (Natsopa), issued a statement yesterday defending financial policy decisions by the union during his leadership.

The union is seeking legal advice on whether to take civil proceedings to recover money that might be owed the union from property deals. Inquiries are also taking place into the operation of Natsopa's bank accounts and into companies set up through the union or by officers acting on their own authority.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient bankruptcy as a result of inter-war generosity of the society with certain benefits to the membership. Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien, the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested in the accountants' report.

Lord Briginshaw's statement says: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the membership."

Lord Briginshaw said that he resented the "continuing witch hunt" into the union's affairs.

When I was elected general secretary of the society in 1951, the society was actually insolvent, as most trade unions are today.

"Natsopa in 1951 was in insipient

FT Monthly Survey of Business Opinion

© Statistical Material Copyright Taylor Nelson Group Ltd.

GENERAL OUTLOOK

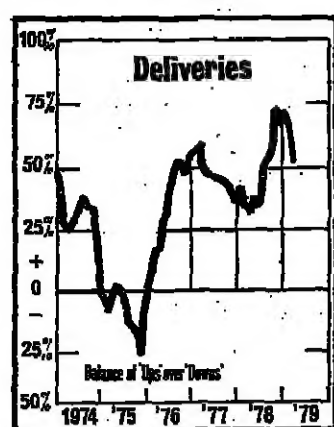
Optimism falls further

OPTIMISM over the general outlook for business continued to decline in last month's survey, and this was mirrored by a further drop in confidence over the prospects for the UK economy.

The March survey covered the building and construction sectors, as well as textile and clothing and the food and tobacco groups.

The decline in optimism over the last four months in the building sector was attributed mainly to industrial unrest and the bad weather. However, fears of recession, the world economic position and general uncertainty were cited as further factors.

In the textile and clothing



main factor contributing to loss of confidence. One of the main complaints over the prospects for the economy was that the very unequal level of wage settlements might lead to further wage inflation, together with further industrial trouble before the end of the current wage round.

Export expectations also continued to fall. Companies in the food and tobacco and textile and clothing sectors were more inclined to see exports remain at the same level in the next 12 months, rather than higher as they had four months ago. Building and construction companies expected exports to decline.

GENERAL BUSINESS SITUATION

Are you more or less optimistic about your company's prospects than you were four months ago?	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
More optimistic	31	31	25	34	9	37	3	3
Neutral	35	43	55	51	32	37	36	36
Less optimistic	34	26	20	15	59	26	61	61

EXPORT PROSPECTS (Weighted by exports)

Over the next 12 months exports will be:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Higher	61	67	71	79	46	31	33	33
Same	30	22	21	16	14	69	50	50
Lower	9	10	6	3	38	—	17	17
Don't know	—	1	2	2	2	—	—	—

NEW ORDERS

The trend of new orders in the last 4 months was:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Up	50	49	54	58	35	56	39	39
Same	14	16	11	8	27	—	51	51
Down	15	14	12	10	14	26	8	8
No answer	21	21	23	24	24	18	2	2

PRODUCTION/SALES TURNOVER

Those expecting production/sales turnover in the next 12 months to:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Rise over 20%	6	3	4	—	—	17	—	—
Rise 15-19%	8	11	10	—	—	—	—	—
Rise 10-14%	19	15	10	5	21	15	—	—
Rise 5-9%	21	21	23	38	9	24	—	—
About the same	36	31	32	53	53	53	—	—
Fall 5-9%	1	1	—	—	—	—	—	—
No comment	9	18	21	4	—	—	—	—

STOCKS

Raw materials and components over the next 12 months will:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Increase	42	36	34	37	22	56	18	18
Stay about the same	42	45	49	44	49	44	53	53
Decrease	8	7	3	4	—	—	29	29
No comments	8	12	14	13	24	—	—	—

FACTORS CURRENTLY AFFECTING PRODUCTION

Factors currently affecting production	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Home orders	81	79	79	33	92	98	90	90
Export orders	60	67	63	47	49	28	65	65
Executive staff	16	19	19	3	—	—	24	24
Skilled factory staff	27	27	42	45	—	26	39	39
Manual Labour	10	12	12	7	9	—	15	15
Components	3	4	4	6	—	—	15	15
Raw materials	12	14	9	12	11	18	—	—
Production capacity (plant)	11	4	4	4	8	37	—	—
Finance	1	1	1	1	—	—	—	—
Others	10	7	9	5	4	18	2	2
Labour disputes	18	26	26	25	4	—	63	63
No answer/no factor	3	5	3	1	4	—	8	8

LABOUR REQUIREMENTS (Weighted by employment)

Those expecting their labour force over the next 12 months to:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Increase	26	27	30	32	11	24	8	8
Stay about the same	57	51	53	43	66	54	74	74
Decrease	17	22	17	25	23	22	18	18

CAPITAL INVESTMENT (Weighted by expenditure)

Those expecting capital expenditure over the next 12 months to:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Increase in volume	53	46	47	46	56	64	39	39
Increase in value but not in volume	6	8	8	10	—	—	30	30
Stay about the same	23	23	23	18	38	36	15	15
Decrease	16	16	14	16	6	—	16	16
No comment	2	7	8	10	—	—	—	—

COSTS

Wages rise by:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
5-9%	14	19	24	24	—	18	3	3
10-14%	61	55	51	56	7	63	83	83
15-19%	14	11	8	6	15	17	12	12
20-24%	1	1	1	—	—	—	—	—
No answer	10	14	16	14	2	2	2	2

PROFIT MARGINS

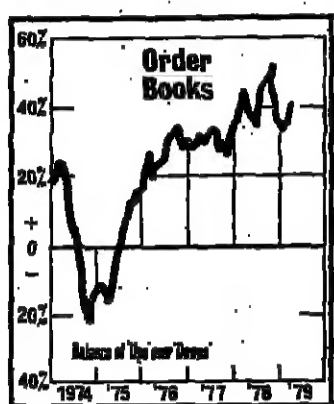
Those expecting profit margins over the next 12 months to:	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Improve	43	40	39	33	49	35	54	54
Remain the same	35	47	41	40	12	19	16	16
Contract	20	12	13	21	35	46	15	15
No comment	2	1	7	6	4	—	15	15

ORDERS AND OUTPUT

Drop in recent deliveries

WHILE recent deliveries have dropped in all three sectors, the picture on new orders and order books was not so gloomy. However, there was a slight fall in the median expected increase in turnover over the next 12 months—from an increase of 7.1 per cent to one of 7.0 per cent.

The main factor in the downturn in deliveries was the transport strike. However, the building sector had also been affected by the bad weather as well as cutbacks in public expenditure. The weighted index for new orders showed no change—an improvement among construc-



tion companies being offset by a downturn in the textile and clothing sector. The survey warns, however, that in view of the pattern of the answers it is quite possible that the index may once again start to fall.

Companies in the food and tobacco sector were more inclined to expect order books to increase and as a result there was a small rise in the index. There has been a slightly greater tendency for companies to expect output or sales over the next 12 months to increase by less than 5 per cent. Nevertheless, this indicator remained relatively buoyant.

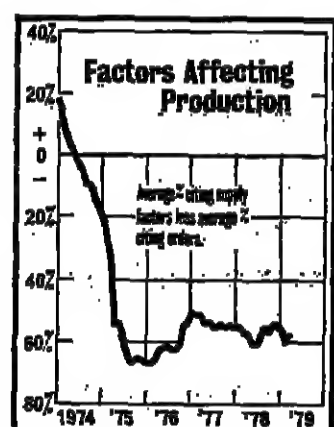
CAPACITY AND STOCKS

Working below plan

ALL THREE sectors were more inclined to say they were working at below capacity than they had been in November. This meant that the index measuring the extent to which companies were working at planned output levels or above—which had been rising—has now dropped back.

The sharp decline in the level of expected bought-in supplies in February has come to an end. Companies in the building and textile and clothing sectors were less inclined to expect stocks of all types to increase over the next 12 months, but food and tobacco companies were more inclined.

While there was a slight fall



ing the overall level of stocks and bought-in supplies, increased.

There was little change in the index covering the level of stocks in relation to current sales trends. While the building and textile and clothing sectors were more inclined to say levels were too high than they had been last November, this was counterbalanced by findings in the food and tobacco sector.

There was little change in the pattern of answers covering factors affecting production, although companies were less inclined to mention labour disputes, following the end of the transport dispute.

CAPACITY WORKING

	4 monthly moving total				March 1979			
	Dec. Mar. %	Nov. Feb. %	Oct. Jan. %	Sept. Dec. %	Constr. %	Food & Textiles %	Tobacco %	Clothing %
Above target capacity	—	—	—	—	—	—	—	—
Planned output	—	—	—	—	—	—	—	—
Below target capacity	—	—	—	—	—	—	—	—
No answer	—	—	—	—	—	—	—	—

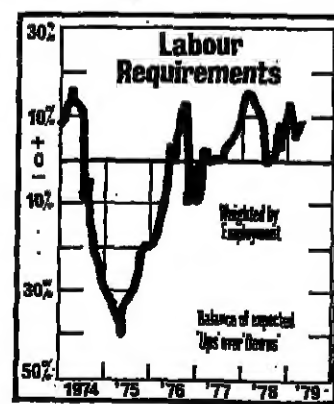
INVESTMENT AND LABOUR

Better job prospects

THERE WAS a slight increase in the index for labour requirements. However, the survey warns that much of the increase derived from the weighting pattern of answers and should therefore be treated with caution.

Companies in the building and textile and clothing sectors were more inclined to mention employment legislation, plans to increase productivity and uncertainty about the future as factors discouraging them from increasing employment levels.

Both the building and food



inclined to say that their capital expenditure would increase over the next 12 months in volume terms. As a result, this index, which had been falling, has started to rise.

Weighted by capital expenditure, the balance of companies expecting an increase in investment over the next year over those expecting a decline rose from 38 per cent to 42 per cent.

At the same time all three sectors were more inclined to say they would require outside finance for capital expenditure in the next year than they had been in November.

COST AND PROFIT MARGINS

Wages move up

COMPANIES' expectations of wage costs continued to move slowly upward although the reverse pattern seems to be evident for total unit costs.

The median expected increase for wages over the next year

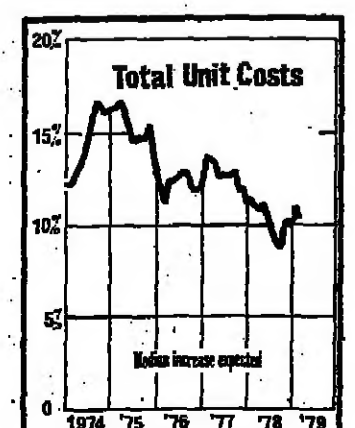
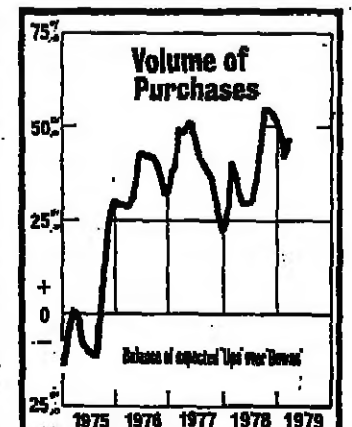
figure for unit costs fell from 11.1 to 10.4 per cent. The pattern for expected price changes was similar to that for unit prices, with higher than previously expected rises among construction and textile companies more than balanced by forecasts in the tobacco and food sector.

There was a further drop in the index covering profit margins, with the building and food and tobacco sectors both more likely to say they expected margins to contract. Among the factors cited as tending to reduce margins were price competition at home and abroad and wage and cost increases, including those of oil.

These surveys, which are carried out for the Financial Times by the Taylor Nelson Group, are based upon extensive interviews with top executives. Three sectors and some 30 companies are covered in every month. They are drawn from a sample based upon the FT Actuaries' Index, which accounts for about 60 per cent

of all public companies. The all-industry figures are four-monthly moving totals covering some 120 companies in 11 industrial sectors (mechanical engineering is surveyed every second month).

Complete tables can be purchased from Taylor Nelson and Associates.



moved up from 12.2 to 12.5 per cent between February and March, while the comparable

I.D. & S. RIVLIN HOLDINGS LIMITED

Notice is hereby given of the appointment of Lloyds Bank Limited as Registrar

All documents for registration and correspondence should in future be sent to the address below:

C.B. RIVLIN
Secretary



Lloyds Bank Limited,
Registrars Department,
Goring-by-Sea,
Worthing, West Sussex BN12 6DA.
Telephone: Worthing 502541.
(STD code 0903)

Lloyds Bank Limited

BUSINESS MEETS BUSINESS IN AFRICA

Four trade exhibitions and two conferences bringing together companies from the Western World with potential partners, customers and agents in the expanding new African markets.

The following fields are in most demand:

- agricultural equipment
- construction industry
- woodworking machinery
- hospital equipment
- refrigeration
- telecommunications
- printing machinery
- teaching materials
- transportation
- textiles industry

3RD EXPO AFRICA
79, Lagos May 7-10

Closing Date
8th April

Telephone or telex for details to:
I/C Expo Ltd., 100 Kingsway, London WC2.
Telephone 242-4784. Telex 25765

Please send me information on:

1st Expo Sudan '78
7-10th July, Khartoum
1st Expo Egypt '79
and International
Conference 8-11th
September, Cairo
4TH EXPO Africa '79,
KENYA and
International Conference
15-18th October,
Nairobi

Name _____
Company _____
Address _____
Industrial Field _____
Telephone _____
Telex _____

CONTRACTS AND TENDERS

LEMBAGA LETRIK NEGARA TANAH MELAYU
NATIONAL ELECTRICITY BOARD
OF THE STATES OF MALAYA
TRENGGANU HYDROELECTRIC PROJECT
CONTRACT NO. 1854/3
TUNNEL LINERS AND PRESSURE PIPELINES

The National Electricity Board invites applications from suitably qualified and experienced contractors wishing to be registered as Tenderers for the Tunnel Liners and Pressure Pipeline Contract for the Trengganu Hydroelectric Project in Trengganu, Malaysia. The work will comprise the fabrication and delivery of approximately 1,380 m of steel tunnel liners and pipes with a diameter of 375 mm and with plate thickness varying from 14 mm to 25 mm. Approximately 2,430 tonnes of notch ductile carbon manganese steel plate will be required. Corrosion protection of the liners and pipes will be required.

The National Electricity Board through the Government of Malaysia has obtained a loan from the Overseas Economic Co-operation Fund, Japan to finance the foreign currency portion of this Contract. Application for registration will be considered from interested contractors of the following countries:

(1) Member Countries of the Organization for Economic Co-operation and Development (OECD).

(2) Developing Countries in general subject to individual notification of approval by the National Electricity Board.

Formal applications for registration should be submitted not later than 16 May 1979. It is expected that Tender Documents will be issued to Registered Tenderers about August 1979 and that Tenders will be required to be submitted about 3 months thereafter.

Full details of the applicant's experience in the fabrication of large diameter steel pipes must be forwarded with their application, together with details of their technical and financial competence. Applications must be accompanied by a Banker's Order or Draft for S\$250 payable to Snowy Mountains Engineering Corporation as a documentation fee. The documentation fee will be refunded only to applicants not issued with Tender Documents.

Applications must be forwarded to:

Project Manager
Trengganu Hydroelectric Project
Snowy Mountains Engineering Corporation
PO Box 356, Cooma North, NSW 2630, Australia
with a copy to:
Project Engineer
Trengganu Hydroelectric Project
National Electricity Board
PO Box 1003, Kuala Lumpur, Malaysia

The National Electricity Board is not liable for costs incurred by applicants in preparing applications and will not be liable for costs incurred by Registered Tenderers in preparing Tenders.

WANDSWORTH CORPORATION

Installation of Heating at Surrey Lane Estate, S.W.11

Contractors wishing to be considered for selection to tender for the installation of heating to 3

Building and Civil Engineering

Over £10m worth for Crown House

FORMED TO handle overseas interests for the Group, Crown House Engineering International has won contracts in the Middle East valued at £10.23m.

Four contracts in Egypt have been awarded by the Arab Organisation for Industry. With main contractor, John Laing International, in a £4.5m contract, the company will supply and install the air-conditioning and electrical work, plumbing, fire protection, compressed air services and cranes, for a factory project at Helwan, Cairo. Parsons Brown is the consulting engineer for the work which

starts in May with completion due in a year's time.

Also at Helwan, with Cementation International as main contractor, plumbing, electrical and air-conditioning services will be installed at an office complex. Work on this project (valued at £780,000) starts next month with completion in April next year.

A £3m contract at a factory project at Heliopolis, Cairo, also involves the supply and installation of air-conditioning, plumbing, fire protection and compressed air services. Cementation International is main contractor. Vincent Gorbun and Partners the architect,

with consulting engineers on its Bank's headquarters at Watkins Hart and Payne, Worthington. This £1.7m contract started in February and completion is scheduled for September.

Hassan Mohammed Allar, Sons of Cairo is main contractor on another factory project at Heliopolis. Vincent Gorbun and Partners is the architect and Watkins Hart and Payne the consulting engineer on the contract for electrical, air-conditioning and plumbing services. Work on the £1.7m contract started in January.

In Saudi Arabia, Crown House Engineering International will work for Saudi Arabian Monetary Agency

Wiltshiers active in Kent

THE CANTERBURY Building Division of Wiltshiers has been awarded contracts worth nearly £500,000.

Work has started on a £257,000 extension and renovation of Ledge Point at Westgate on Sea, Kent, for the Post Office Fellowship of Remembrance. Young and Purves are the architects for this project which calls for the provision of new bar facilities, a general amenity area, decoration of the rooms and the installation of a new heating system.

In Queenborough, Kent, Wiltshiers is erecting a chemical production unit for Abbott Laboratories while in High Street, Canterbury, work has begun on a £74,000 refurbishing job for the Sussex County Building Society.

Cartwright group busy

LARGEST JOB is a number of contracts totalling £5.4m awarded to companies in the Joseph Cartwright Group for Kirklees Metropolitan Council, and is valued at £2.5m. This involves the building of six blocks of two-storey flats, giving a total of 182 dwellings close to the railway station in central Dewsbury. Another local authority job, valued at £425,000 is for 38 new dwellings at Gledhill, Dewsbury.

Improvements to 121 houses at Elland for the Calderdale Council are valued at £600,000, and 26 homes for the Bradford Metropolitan District Council are valued at £150,000.

In the south, the company is to commence a project at

Llandough, Cardiff, which will provide 84 new dwellings for the Wales and West Housing Association, estimated to cost £750,000. In Bath, work on a refurbishment scheme in the city centre will provide 32 flats in the restored Fountain Buildings under a contract of £340,000 for the Knightstone Housing Association.

The group's civil engineering company has acquired contracts totalling £800,000, including reconstruction of the Brackla Road Bridge for the Mid Glamorgan County Council. Flood prevention work at Siston, Avon, for Wessex Water Authority, and construction of a bridge at Port Pentre Bach, Crickhowell, near Abergavenny.

Oil terminal in Ecuador

THE ECUADOR State Petroleum Corporation (Corporación Estatal Petrolera Ecuatoriana) has commissioned Sir William Halcrow & Partners to design and supervise construction of the second stage of an offshore tanker terminal required for the export of petroleum products from its recently constructed refinery at Esmeraldas. Mechanical and electrical engineering services will be provided by Ewbank & Partners.

The first stage development, which provided a temporary facility for the refinery and became operational in November 1977, and for which Halcrow was also responsible, comprised a four-house sea-bed manifold located four kilometres offshore, in a water depth of 16 metres. The temporary terminal was

built to accommodate tankers up to 20,000 dwt and needed to be connected to the Esmeraldas refinery, situated some distance inland.

A recently signed contract for provision of a permanent and larger tanker facility, says Halcrow, involves replacing the sea-bed manifold by creation of a two-birth sea island terminal capable of accommodating vessels up to 50,000 dwt. Construction is foreseen of a central loading platform serving two alongside berths; in addition, the terminal will include separate berthing and mooring dolphins, and an auxiliary services and accommodation platform. Main structures will be of steel piled jacket design and will be interconnected by steel access bridges.

IN BRIEF

● Contracts worth £964,000 awarded to D. Wilson (Birmingham) include work for the Licensed Victuallers National Homes, Church Army Association and Bromford Housing Society.

● Pipeline insulation sub-contract worth £1m has been placed with McGill Insulation Group, Huddersfield, Essex, by Land and Marine Engineering on behalf of Pembroke Cracking Company, for work on a 12-inch diameter, five miles long land and submarine oil pipeline at Milford Haven.

● Smith and Partners announces two major contracts with Tempco International: comprehensive conversion of an existing dry-storage warehouse into a cold-storage chamber at Dronfield, six miles from Sheffield and construction of a

cold store in Wisbech Road, Kings Lynn.

● New president of the Concrete Block Association is Basil M. Rayner, managing director of Beacraft Concrete Partitions (Phoenix Timber Group). In its annual report the Association says that the block industry met rising demand in 1978: total deliveries were over 72m square metres, about 11 per cent more than in the previous year.

● Ercon (Engineering and Resources Consultants) has been awarded a contract to design and supervise the construction of an animal feed processing complex at Ruwi, near Muscat, Oman, by Oman Flour Mills.

● A fitting-out contract worth about £2m has been awarded to Bovis Construction by Owen Owen. The work is to be carried out at the latter's new store due to be opened in 1980 in Redditch, Worcs. Architects are Stewart K. Riddick & Partners.

ESPLEY-TYAS CONSTRUCTION GROUP

P.O. Box No. 6, Park Hall, Salford Priors, Evesham, Worcestershire
Tel. Bidford-on-Avon 3721 (20 lines)
STD (078 988) 3721

Hospital in Spain

SPANISH MEMBER company of the John Laing Group, Laing SA, has been awarded a £8.2m contract to modernise the Gran Hospital, Madrid, for the Spanish Instituto Nacional de Previsión.

Project is due to start in June and involves gutting areas of the 14-storey hospital (built in the late 1940s) and rebuilding them. Apart from cleaning the external facing brick and stone-work facade and structure will remain unaltered. During the period of the 30-month contract the hospital will continue to function.

Work also includes converting four-bed wards into two-bed rooms, replacing existing lifts with 15 new ones, including two in newly constructed lift shafts, the transfer of 12 operating theatres into other areas of the building and the construction of an additional cobalt therapy room. Contract also covers complete redecoration, rewiring, replumbing, and the replacement of heating and ventilation systems.

Dividing the hospital vertically, work will be carried out in three overlapping phases. Temporary brick partitions will be built in passages to isolate the construction areas from the rest of the hospital, eliminating problems of dust and noise.

Factory contract

NEW FACTORY on a nine-acre site at Peterborough will be built by Wimpey Construction for Sodastream, the company which makes do-it-yourself machines for fizzy soft drinks. Contract is worth £2.5m and was announced by the Development Corporation which is handling the city's expansion scheme.

The brick and steel factory will cover 144,800 square feet and will be ready for completion in the summer of next year.

Work at power station

WEST COUNTRY subsidiary of the Mowlem Group, E. Thomas and Co., has won a £2m CEGB contract for civil engineering work at Hinkley Point A power station, Bridgwater, Somerset.

Work involves the construction of two three-storey steel framed buildings each containing a heavy reinforced vault for the storage of magnox fuel after its removal from the reactor.

Each vault will be about 31.8 foot square, 38.4 foot high, and partly underground. Both buildings will be about 52.5 foot high.

Other work includes installing complex mechanical and electrical services and plant. Work is due to start shortly and should be completed in the autumn of 1980.

Kent hotel extension

EXTENSION OF the Great Danes Hotel at Hollingbourne, Kent, is to be undertaken by Rank Hotels by Sir Robert McAlpine and Sons. Value of the contract is nearly £1m.

Main task will be to add another 51 bedrooms in a three-storey block. Work is about to start and is due for completion in early 1980. Architects are Peter Ednie and Partners and quantity surveyors, the Watkins Pool Partnership.

Awards to C. Bryant Variety of jobs for A. Monk

A CONTRACT to modernise 250 houses in Acocks Green, Birmingham, has been awarded by the City of Birmingham Housing Authority to C. Bryant and Son.

Bryant is also to erect a multi-storey car park for Redditch Development Corporation as part of a town centre scheme. This is worth £1.5m. Another award, from Delta Tubes, covers reconstruction of two factories—one at the company's island site in Heath Street South, Birmingham (£482,000), the other in Eyre

Industrial buildings

LAUNCHED BY the Atcost Group of Tunbridge Wells is a new industrial building design system called Atcost 80, said to be particularly suitable for warehouse and factory projects, offering total versatility in design possibilities.

Major feature is the variable gutter location which, when positioned in the elevation, will act as a brick restraint, a hotel over windows or doors, and will

also serve as an inherent structural member. A curved eave course has been introduced at the 'actual' gutter level. This gives the wide range of colour claddings available, says the company, enables the achievement of a high degree of isolation.

The columns are said to provide from a minimum of one hour to four hours of resistance.

Dredging in Abu Dhabi

ONE OF Holland's largest building contractors, HBC, has announced the award of a contract to its dredging division, HAM, for dredging and reclamation works for the Abu Dhabi government.

This consists of deepening channels and a harbour basin

together with reclamation works for four industrial areas. About 15m cubic metres of sand and rock have to be removed, and two large cutter suction dredgers will be mobilised.

Project is due to start soon and will take about 11 months to complete.

Industrial awards

THREE industrial building contracts, together worth about £1.14m have been won by Tibury.

The largest, for the Welsh Development Agency, involves the £550,000 conversion of a large factory at Penallt, Mid Glamorgan, into 7 small units and the construction of four new units, together with associated roads, sewers and accommodation works.

In the same county, the council has instructed Tibury to proceed with an extension to Ysgol Cefn Glas School, Bridgend, at a cost approaching £100,000. The third contract is worth about £390,000 and is for a warehouse and vehicle maintenance unit at Carno, Powys, for Laura Ashley.

Omnia units for Riyadh

AL MORABA Intersystems of Al Khobar has signed a contract with the Riyadh office of Keang Nam Enterprises of Seoul, Korea, for the supply of 180,000 square metres of Omnia wide slab units and precast parapets for a development of 800 single storey dwellings in Riyadh.

Al Moraba, licensed Omnia manufacturers in the eastern region of Saudi Arabia, will be making the units in a specially constructed on-site plant.

Value of the contract to Al Moraba is about £1.5m, excluding materials and unskilled labour which will be supplied by the contractors.

Technical News

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

ANALYSIS Identifies the oil

A DATA analytical technique that could have numerous applications within the oil industry has been developed by a Norwegian scientist, reports P. Gjerster from Oslo. The method could be used to identify the contributors to a composite oil slick, and to establish the proportions of different oils present in the slick.

Similarly, it could be used to determine accurately the proportions of oils delivered from different operators simultaneously to a common pipeline (provided that the chemical composition of the oils was different).

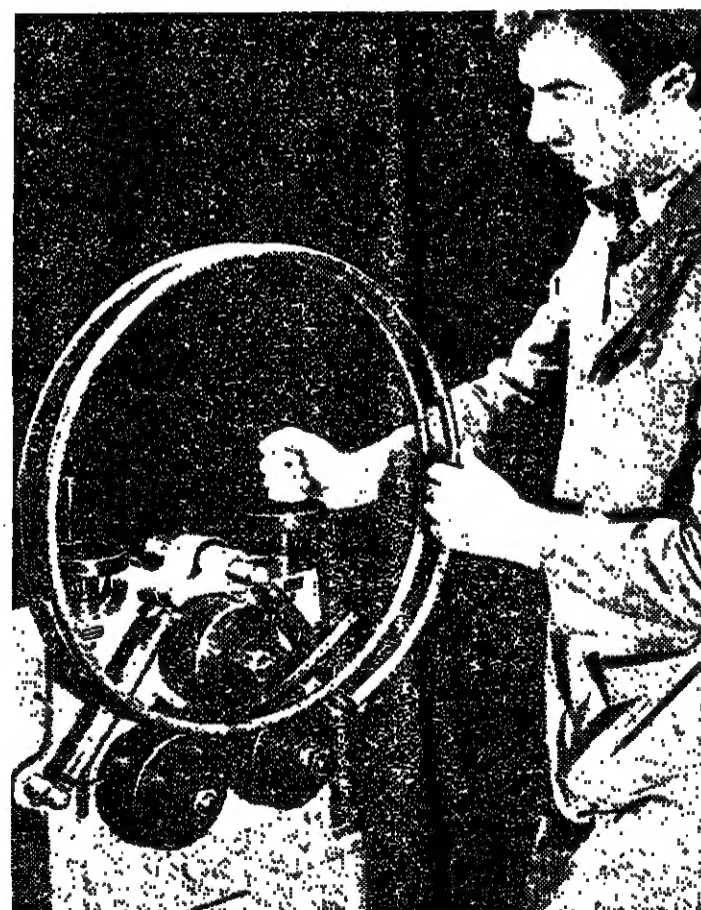
In each case the analyst would need a data bank of information on the oil types likely to be present. Dr. Ole H. Christie, head of Oslo University's Mass Spectrometry Institute, has developed the technique during independent research done in his spare time without the backing of either industry or government. It is based on extensions of existing analytical methods, particularly one devised by Dr. F. Wold of Umea University in Sweden, a world expert on chemical classification. Dr. Christie's method relies

on the fact that oils from different sources have their own chemical "fingerprints". Each oil contains different amounts of various elements and organic compounds. Its composition can be translated into computer language and stored in a data bank. Then, by comparing the composition of a slicker composite oil delivery with the information in the bank, the required answers can be found.

Although the theory behind the method is far above the layman's head, it produces evidence in the form of patterns on a computer printout which laymen could recognise and accept.

Clusters of numbers in the print-out (each number representing a type of oil) show clearly which types are present in a composite slick and what proportions.

This visible demonstration of the scientist's conclusion would be of value in a court case where a jury had to decide the liability of different contributors to a slick.



This machine is now being marketed by the Addison Tool Company (Westfields Road, Acton, London W3 0RE) for cold-forming metal rods, tubes and sections into rings and spirals. The standard tooling supplied is suitable for strip, angle iron and sections with a basically square or rectangular profile. Alternative tooling for rounds and other shapes not readily accommodated in the standard tools are said to be easily fitted.

level, with an earphone for use in noisy areas. A small battery-operated gas generator provides a simple and fast functional check of the detectors (five at a time) before they are issued to personnel. The "plug-in" arrangement avoids the problems normally arising when handling toxic gases.

Scope can be extended by the use of an additional dosimeter to compute the time weighted average over working periods up to 12 hours. Microprocessor controlled, it stores and subsequently prints out a concentration/time profile.

Known as the Monitor personal gas alarm system, the individual detectors measure only 104 x 52 x 22 mm and weigh only 150 grams; each uses an electrochemical cell specific to the gas in question. An audible alarm sounds if the gas concentration exceeds a pre-set

level, with an earphone for use in noisy areas. A small battery-operated gas generator provides a simple and fast functional check of the detectors (five at a time) before they are issued to personnel. The "plug-in" arrangement avoids the problems normally arising when handling toxic gases.

Scope can be extended by the use of an additional dosimeter to compute the time weighted average over working periods up to 12 hours. Microprocessor controlled, it stores and subsequently prints out a concentration/time profile.

Known as the Monitor personal gas alarm system, the individual detectors measure only 104 x 52 x 22 mm and weigh only 150 grams; each uses an electrochemical cell specific to the gas in question. An audible alarm sounds if the gas concentration exceeds a pre-set

INSTRUMENTS Thickness measurement

NEW CONCEPTS in thickness measurement eliminate the risk of errors through incorrect instrument calibration and are incorporated in a pocket-sized digital ultrasonic thickness gauge named Audit-80.

Access to only one side of the test piece is necessary, which represents a big advantage over standard micrometers and calipers.

Audit-80 is intended to meet increasing needs throughout manufacturing industries for routine inspection at all stages of the production process, especially machining, assembly, test and installation or commissioning. These requirements arise from both current and anticipated legislation governing product liability and safety.

The instrument is expected to play an important role in materials inspection by steel stockholders and other metals

suppliers and at the goods inward stage where significant savings can be made through the rejection of unsuitable material before money is wasted in using it in manufacturing processes.

Circuit precalibration and encapsulation during manufacture ensures correct calibration for use on steel in the standard instrument throughout the life of the instrument during normal use. There are no controls for the operator. Even the on/off switch has been incorporated in the probe so that it operates automatically when the probe is placed on the test surface. In this way operation is simplified to the utmost so that the instrument can be operated with only one hand and battery life between charges is prolonged.

Baugh and Weedon, Widemere Street, Hereford (0432) 67671.

Temperature indicator

DIGITAL temperature indicator to provide high accuracy temperature measurement under any ambient conditions has been introduced by Aughton Instruments, Kirby.

Called the ATI-100 it is available in four types to suit many industrial and laboratory applications. Temperature display is either 3 digit 0.3 in LED or 0.4 in LCD depending on the type.

The indicator has four-wire platinum resistance or nickel resistance sensors through which a constant current of less than 1mA is maintained. Accuracy is $\pm 0.1^\circ\text{C}$ within the

range -100 to $+200^\circ\text{C}$ (platinum) and $\pm 0.1^\circ\text{C}$ within the range -70 to $+170^\circ\text{C}$ (nickel). The instrument is factory-set to comply with the sensor curve to within a maximum error of 0.05C over the whole calibrated range.

Calibration to National Standards can be effected by substituting the probe for fixed values of four-wire standards, for example, 10C=100 ohms, 100C=138.5 ohms, which also have calibration certificates.

Aughton Instruments, Woodward Road, Kirby Industrial Estate, Kirby, Liverpool L33 7UZ. 051 548 6060.

Will detect the flaws

MULTI-FREQUENCY eddy current test instruments of high resolution stability and sensitivity are being introduced by Wells-Krantz under the description Defectomat F 2.825.

Designed for flaw detection and materials sorting, conductivity measurement, coating thickness and clearance measurement, manual or semi-automatic component testing and precise determination of eddy-current test parameters, the device incorporates two adjustable monitors. Standard specification includes chart and tape recorder outputs and a connection for data processing instrumentation.

Test evaluation is by digital voltmeter readout of X, Y and Z components and an oscilloscope display incorporating an optional storage facility. Test frequencies are continuously variable from 100 Hz to 1MHz. Testing speeds are within the range 0.2 mm/s up to 100 m/s,

dependent upon frequency setting and type of probe or sensor utilised.

F 2.825 has facilities for matching to all eddy current differential or absolute probe systems; it will operate with standard or special transit coils, fixed or rotating probes, scanning probes, etc. of any manufacture.

Standard 19-inch modular racking enables servicing to be quickly implemented. Front and control panels open upwards or downwards and lock in position as required.

Operational temperature range is $0-35^\circ\text{C}$ although units for use at higher temperatures can be supplied to order. It weighs 41 kg and physical dimensions are 510 mm wide x 310 mm high x 570 mm deep. Wells-Krantz, Castle Vale Industrial Estate, Minworth, Leicestershire, West Midlands B76 8AY (021-351 3151).

Atlas Copco compressed air systems. A force made to serve you

Atlas Copco
Air Technology
for Generators to Compressors

BANKING Counts the notes at high speed

SPECIALISING IN the design, development and manufacturing of bank-note processing systems, the Swedish Company Inter Innovation has received orders from Barclays Bank, Chubb Integrated Systems and Datasab for over 800 cash adapters and dispensers.

The adapter takes over the tedious and time-consuming part of counting and delivering money and does it much better. It can handle the same number of denominations as a teller and it is able to work with new, used and poor quality notes in any mixture. It does the job fast and reliably, allowing the teller time to give better service to the customer, and it increases bank floor security.

The system delivers to the teller the exact amount of notes required, in one bundle, ready to be handed straight to the customer. With microprocessor control the adapter is so fast that it can easily be operated by two tellers simultaneously, dispensing around 15 notes per second.

Orders from Datasab include over 250 units representing an initial shipment of equipment to support Citibank of New York, N.Y., teller-terminal system which is being installed in New York City this year.

The heart of the cash adapter is a modular mechanism (the MDDM), providing a choice of note capacity and number of denominations to the user. Money is stored in tamper-proof cassettes designed specifically to be simple to handle and transport.

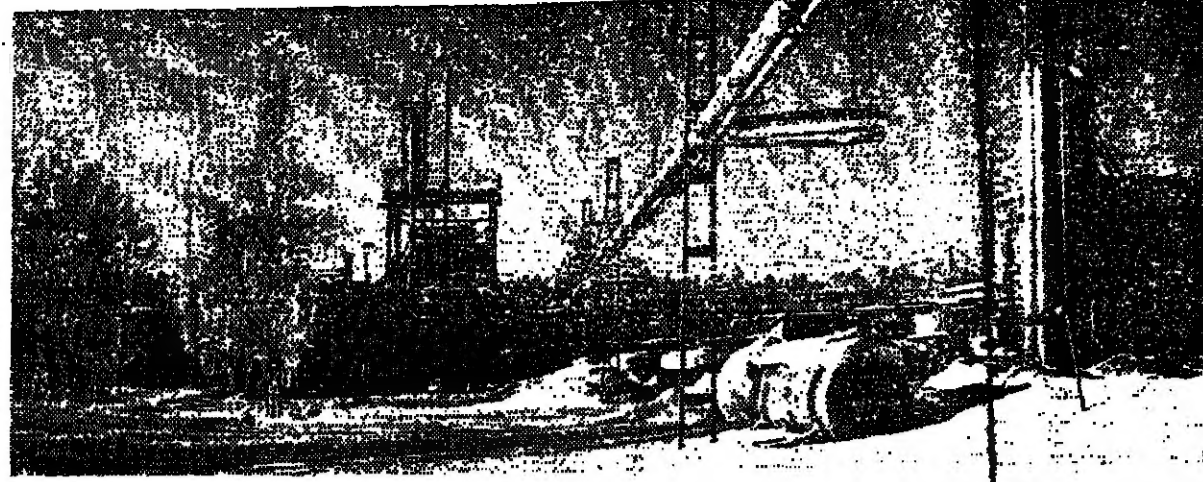
Chubb, the UK banking-equipment supplier, has made a successful design around the MDDM of customer-operated note dispensers and automatic teller machines (ATM). Its order for 500 units includes equipment for the Swedish nationwide ATM network operated by a consortium of commercial banks, with Philips Data Systems as prime contractor.

Inter Innovation, Box 43009, S-100 72 Stockholm/Sweden.

THE MANAGEMENT PAGE



Claes-Ulrik Winberg (left)—concentrating his mind on getting the right diversification mix; a spent acid plant (centre) and the RBS 70 laser-guided anti-aircraft missile gun illustrate Bofors' expansion into chemicals and its continuing commitment to armaments.



WHAT DOES a world-renowned arms manufacturer based in a neutral country do, when its domestic market threatens to shrink and public opinion strongly favours disarmament and curbs on trading in weapons? Exploit its technological know-how in less controversial fields and diversify quickly, is the obvious response. But Bofors has been in and out of "civil" production for the past century or so and in the view of Claes-Ulrik Winberg, managing director of the Swedish armaments group, diversification is no C.P. answer. Since he took over in 1973 he has eliminated some 70 product groups from the company's range—including some of its steel interests—but he feels that Bofors is still too diversified.

It does not pay, he argues in contradiction of much previous Bofors' thinking, to move into products which the company's workshops have no experience of manufacturing and which call for a widely different marketing and financing approach. This philosophy is born of experience. The ordnance division has continued to be the main source of Bofors' profits, whereas several attempts at diversification have not turned out well.

Bofors' strength has lain in its engineering and technical skills. It has been oriented to product development rather than to marketing. Its main customers have been governments and defence procurement departments and it has not been geared to meet the demands of a variegated industrial market. The policy evolved by Mr. Winberg, therefore, has been to develop profitable, new operations out of the group's existing skills aimed at a product market of which it already has experience. This is why Bofors has decided to concentrate on chemicals as a second pillar alongside its ordnance activities and is tackling the U.S. market.

Bofors Nobel, the chemicals and plastics division under a young general manager, Per-

Olof Norberg, currently has a turnover of around Skr 600m (\$88m, \$138m) which is less than a quarter of total group sales and half the ordnance division's turnover. But its operating profit has grown from Skr 5m in 1974 to Skr 43m last year.

The link with armaments comes through explosives and propellants. In producing the ammunition for its weapons and the fuels for its missiles Bofors had to develop techniques for the safe treatment of explosives and acid concentrations. Bofors Nobel aims to cash in on these techniques by providing specialised materials and services for the chemical and pharmaceutical companies.

Dangerous

Parallel with its explosives production Bofors has specialised in nitration and nitric acid oxidation processes. More recently, to meet new pollution and environmental requirements, it has had to develop techniques for handling the "spent acids" left by the processes. As a result it is now able to take over for other companies the processing of their raw materials and the handling of dangerous wastes, which is often a costly and embarrassing overhead for them.

Pharmaceutical companies, in particular, want to put their money into research and development and into marketing. For an individual company the nitration processing of its chemicals is a small volume but difficult operation with potential pollution problems. Bofors Nobel offers to produce these chemicals at its specialised plants, saving its customers the investment and the pollution headache.

Already the division sells 90 per cent of its chemicals abroad, its largest markets being in West Germany and the U.K. But the greatest potential lies in the U.S. and, at a later stage, pos-

sibly in Japan. In Europe transport overheads are not a problem because the business is in specialised, not bulk, chemicals, but to tap the U.S. market Bofors Nobel acquired a small company, Lakeway Chemicals Inc., Michigan, in October 1977.

It is now in the process of extending its technology to Lakeway. A spent acid plant will come on stream in the autumn and a new nitration plant should provide extra capacity next year. The possibility of buying up another American company is being evaluated. Mr. Norberg hopes to get U.S. sales up to Skr 150m a year by 1981 and anticipates a 10 per cent annual volume growth thereafter.

The Swedish-based Nobel Kemil remains the largest unit in Bofors Nobel with 40 per cent of its contracts still coming from military customers. A third unit, Nobel Chematur, which has been operating since the 1930s as a chemical engineering contractor, mostly in designing explosives factories, can also benefit from the division's new venture.

The decision to expand on the chemicals side was taken in 1978, when a three-year Skr 200m programme was adopted. It is almost complete. Half or more of the investment has gone into environmental improvements and another large chunk into renovating the existing plant at Karlskoga, so that it is only now that the real expansion of capacity is coming through.

Bofors Nobel is not yet generating enough profit to finance its own investments but Mr.

Norberg's target is to contribute to group cash flow by 1982. His fourth operation, plastics, could provide problems. The odd one out, it does not share the basic technology of the other three units, producing plastic components for cars, trucks and caravans on the civilian side and missile tubes on the defence equipment side. After taking over the plastics operation of the Trelleborg company last year, Bofors currently has con-

siderable over-capacity in plastics and some rationalisation is needed. While chemicals are regarded as having the greatest growth potential, more than three-quarters of the group's Skr 2.8bn (\$320m, \$643m) turnover is still being generated by the ordnance, steel and other engineering operations. Bofors is in no mood to abandon the profits of its weapons manufacturing and attitudes towards the future of the ordnance division at Karlskoga headquarters are by no means defeatist, but steps have already been taken to reduce the group's exposure on the loss-making steel side and on Bofors-Nohab, the diesel engine and turbine company.

Bofors has just reported improved pre-tax earnings of Skr 117m for 1978 but as in the previous year the figure hides the wide gap between the profit contribution from armaments and—more modestly—chemicals

and the losses sustained by the steel and engineering operations. The advance payments made under the armaments contracts are also the main source of the good financial income which boosts the pre-tax result.

The uncertainty shrouding the future on the arms side makes it all the more imperative for the management to pare away its cash-consuming operations. The profit criterion is

being re-emphasised and one suspects that Mr. Winberg would happily get rid of the whole steel business. The ordnance division furnished sales of over Skr 1.2bn last year but, allowing for the explosives and propellants supplied by the chemicals division, Bofors' reliance on defence contracts is proportionally rather larger. Roughly half the group's 14,000 employees work on military contracts. At Karlskoga some 5,500 of the 8,500 employees are directly or indirectly involved in weapons and ammunition production.

Mr. Winberg believes that the ordnance division has probably reached its maximum size. The cuts in Swedish defence spending already foreshadowed mean that to maintain the present volume of production, more export contracts will have to be won. Over the last two years about 55 per cent of Bofors' weapons and ammunition output has gone to the Swedish

defence forces. That proportion will gradually be reduced, possibly by as much as half. The prospects for increasing export sales, it is felt in Karlskoga, depends more on political attitudes than on having the right products. Recently, the foreign affairs committee of the Swedish Parliament voted unanimously for a re-examination of the regulations governing Swedish weapons exports.

The government has also set up a commission to investigate the opportunities for the armaments industry to switch to "alternative" production. "Forget it," Mr. Winberg says bluntly, "there is no alternative."

Bofors makes guns and missiles to Swedish specifications which ensure that they are fundamentally defensive in nature. This "lock on the door" attitude to defence attracts countries which share Sweden's neutral strategy, and developing countries, whose governments feel the need for a deterrent defence.

Foreign demand for Bofors' weapons is undoubtedly strong, but the politics of Swedish arms exports are complex in the extreme. Bofors sells to NATO countries. Its power-operated L/70 40mm gun, the successor to the one which defended Britain in the second world war, is the main anti-aircraft weapon in many countries' arsenals. The third generation, system 75, using a proximity fuse and a pre-fragmented shell is in the final stages of competition with the Swiss Oerlikon for a U.S. order.

Bofors' portable anti-aircraft missile, the RBS 70, has been bought by Norway and is being evaluated by other NATO countries. It is being developed for use at night. The 155mm FH 77 mobile howitzer has also attracted foreign attention.

Swedish politicians have to balance ideals and attitudes to world disarmament against the tradition that the country's own defence forces should not rely solely on foreign suppliers and the knowledge that domestically produced weapons are cheaper, if manufactured in larger series than required by the Swedish forces. In practice Swedish authorities have been fairly pragmatic and Bofors has not been deterred from planning its export drive.

But the Government and the Defence Procurement Organisation have been keen recently to concentrate domestic arms production, particularly on the missile side. Last year Sweden's two producers established the Saab-Bofors Missile Corporation for joint design, development and production of the next missile generation.

Although in the 1970s Bofors was the first company in the world to cast a gun from steel, there is now virtually no link between its steel and armaments sides. In steel it has had two main operations, the production of high-alloy tool and construction steels and a forge producing chiefly heavy lorry crankshafts. The first operation has been effectively dropped from the beginning of this year under an

agreement with the Uddenholm company. Bofors' Skr 400m plan for the erection of a new drop forging plant at its Karlskoga works in a joint venture with Sumitomo, which would have supplied the new press, suffered a setback when the Japanese company withdrew. The new press would substantially enlarge crankshaft output and therefore calls for a larger market. There is probably room for no more than four such presses in Europe; two are already operating and a third is being considered. The alternatives for Bofors are to find another partner with both finance and market access, to persuade the Swedish Government to finance a smaller forge or to abandon the whole crankshaft business.

From the other "steel-making" company, Bofors-Nohab, diesel engine production was transferred last year to a new company which Bofors owns jointly with the Finnish Wärtsilä concern. The idea behind this move was similar to that which prompted the dropping of the tool steel business—that it would be better off outside the Bofors group. Through the Finnish market and Wärtsilä's contacts with the Soviet market, the venture, it is hoped, will have the scope to develop new engines.

Bofors' history goes back to the middle of the 17th century when a hammer forge was built at Boda fors (meaning: stream), close to its present Karlskoga headquarters. Alfred Nobel, founder of the Nobel prizes, took over the company in 1894, introducing the ammunition and explosives business with its complementing chemicals production.

After all the twists and diversifications of the intervening years the Bofors with Mr. Winberg is taking into the 1980s remains fundamentally that of Alfred Nobel, an armaments and chemicals concern. The cobbler has found it best to stick to his last.

Bofors sets its sights on a new diversification target

BY WILLIAM DULLFORCE

missile, the RBS 70, has been bought by Norway and is being evaluated by other NATO countries. It is being developed for use at night. The 155mm FH 77 mobile howitzer has also attracted foreign attention.

Swedish politicians have to balance ideals and attitudes to world disarmament against the tradition that the country's own defence forces should not rely solely on foreign suppliers and the knowledge that domestically produced weapons are cheaper, if manufactured in larger series than required by the Swedish forces.

In practice Swedish authorities have been fairly pragmatic and Bofors has not been deterred from planning its export drive.

But the Government and the Defence Procurement Organisation have been keen recently to concentrate domestic arms production, particularly on the missile side. Last year Sweden's two producers established the Saab-Bofors Missile Corporation for joint design, development and production of the next missile generation.

Military

If Mr. Winberg has to adjust to the political wind for the half of the group involved with military contracts, he is able to take straightforward business decisions in the other half. The steel operation, which has been operating at a loss for three years, has been trimmed, a reconstruction of the drop forging plant is planned and a partner has been found for the diesel engine operation.

Although in the 1970s Bofors was the first company in the world to cast a gun from steel, there is now virtually no link between its steel and armaments sides. In steel it has had two main operations, the production of high-alloy tool and construction steels and a forge producing chiefly heavy lorry crankshafts. The first operation has been effectively dropped from the beginning of this year under an

agreement with the Uddenholm company. Bofors' Skr 400m plan for the erection of a new drop forging plant at its Karlskoga works in a joint venture with Sumitomo, which would have supplied the new press, suffered a setback when the Japanese company withdrew. The new press would substantially enlarge crankshaft output and therefore calls for a larger market. There is probably room for no more than four such presses in Europe; two are already operating and a third is being considered. The alternatives for Bofors are to find another partner with both finance and market access, to persuade the Swedish Government to finance a smaller forge or to abandon the whole crankshaft business.

From the other "steel-making" company, Bofors-Nohab, diesel engine production was transferred last year to a new company which Bofors owns jointly with the Finnish Wärtsilä concern. The idea behind this move was similar to that which prompted the dropping of the tool steel business—that it would be better off outside the Bofors group. Through the Finnish market and Wärtsilä's contacts with the Soviet market, the venture, it is hoped, will have the scope to develop new engines.

Bofors' history goes back to the middle of the 17th century when a hammer forge was built at Boda fors (meaning: stream), close to its present Karlskoga headquarters. Alfred Nobel, founder of the Nobel prizes, took over the company in 1894, introducing the ammunition and explosives business with its complementing chemicals production.

After all the twists and diversifications of the intervening years the Bofors with Mr. Winberg is taking into the 1980s remains fundamentally that of Alfred Nobel, an armaments and chemicals concern. The cobbler has found it best to stick to his last.



When people hear the name Rijn-Schelde-Verolme, they naturally think of shipbuilding. And well they should, since our shipbuilding heritage is known around the world.

We play a leading role in advanced shipbuilding and especially our competence in building highly sophisticated naval vessels is being recognised.

But less well known – and equally as important – are our activities on land.

RSV is one of Holland's largest industrial companies: our nine divisions employ more than 29,000 people at home and abroad.

Both in engineering and manufacturing we

operate successfully in worldwide markets like Africa, South America, The Middle and Far East.

RSV is involved in gas and oil production and processing; the generation, transmission and distribution of electrical energy; as well as chemical processing systems. And in supplementary areas such as supply, field construction, hydrocarbon jobbing activities and municipal and industrial water treatment.

If your company has anything to do with gas, oil, electricity, water or chemicals, RSV can help you. Including financial engineering, training, service and maintenance.

Our management of large, integrated projects

is known and respected wherever we operate by buyers and suppliers.

Within the RSV chain of divisions you'll find such prestigious and well known international companies as Thomassen Holland, Royal Schelde, Breda Engineering, NDSM General Engineering, Delta Engineering, RSV Field Construction, Verolme Elektra.

For more detailed information, please get in touch with us.

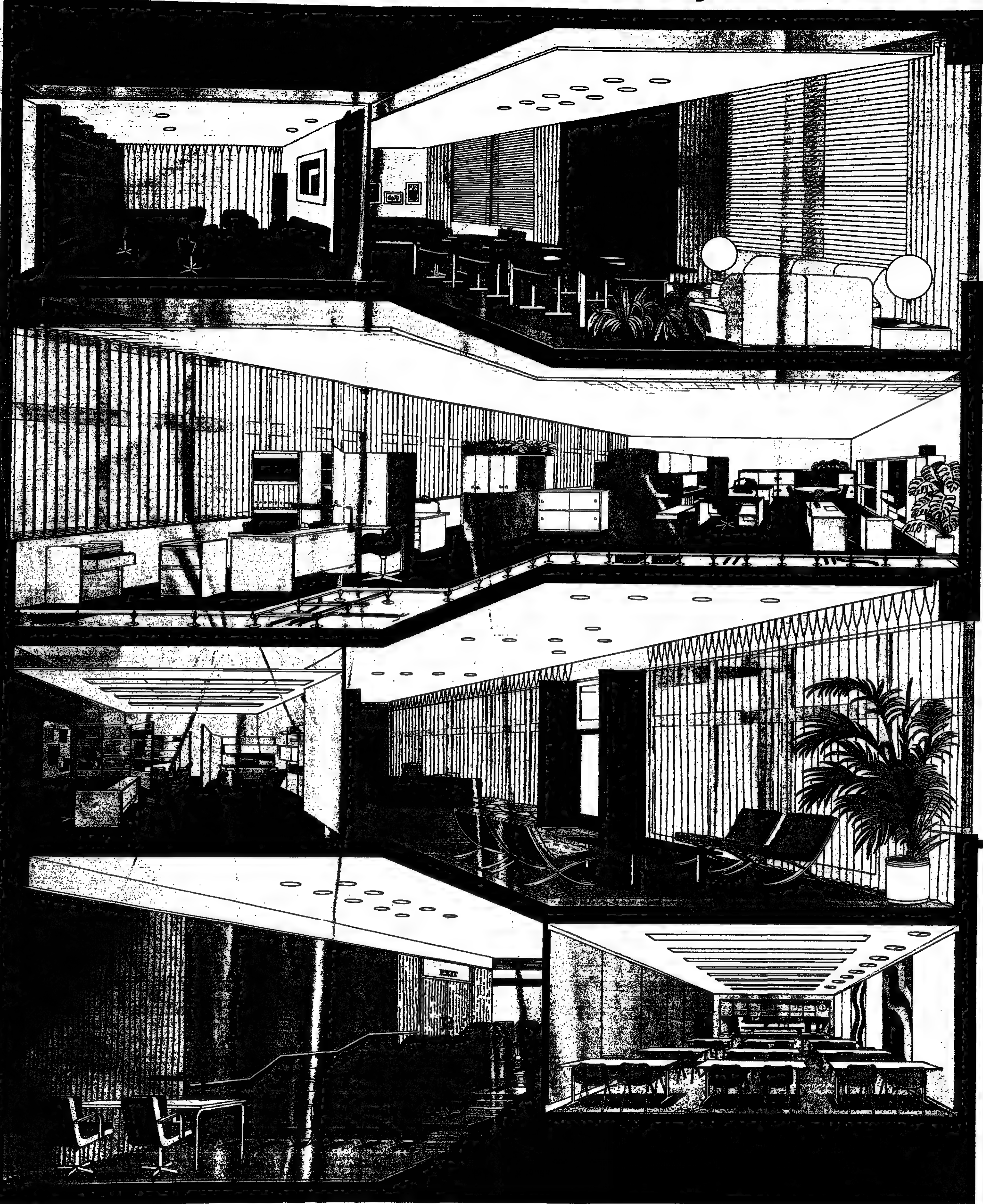
We're Dutch and serve the world.

RSV - P.O. Box 1425 - 3000 BK Rotterdam - Holland



مكتبة النعمان

In offices like these you could do ten days work a week.



We plan to make your offices more productive.

But less like hard work.

Over the years we've made office design our business.

And for many clients, it's made their business.

In one case we saved a company £15,000 a year by re-organising and designing 8,000 sq.ft. of office space.

Starting from square one we look at the way you run things and find out what your requirements are.

Then we produce the most efficient environment possible.

If you're starting afresh in new offices we will consult with your architects, look at basic ergonomics and consider your workflow and equipment. We will also consider

lighting, seating and room colours, because staff who get tired and run down also make a business run down.

In the same way, we can reorganise and update your current premises or we can simply provide you with a report on your present workload, equipment and layout as a guide for improvement.

Write to us and we'll tell you about

ourselves and what we've accomplished in auditoria, canteens, hospitals, sports arenas and airports as well as offices all over the world.

Better still call into one of our showrooms.

Hille International, Whittington House, 19-30 Alfred Place, London WC1, Tel: 01-580 2080 or 50 Sackville Street, Manchester M1 3WF. Tel: 061-236 6929.

Who knows, your office might be making itself a lot of unnecessary work.

hille

Nobody does it better.

THE HILLE GROUP OF COMPANIES

THE ARTS

CAMDEN FESTIVAL

Round House

Don Quixote by RONALD CRICHTON

Paisiello's *Don Quixote*, a Neapolitan opera buffa of 1799, was re-worked over two centuries later by Hans Werner Henze for the summer festival at Montepulciano. The public square of a Tuscan hill-town is a more sympathetic place than the Round House and there the up-dating may have worked. In Phoenix Opera's staging for the Camden Festival last week—the first "opera in the round" it seems in these islands—and Lord's what prospects that calls up—the joke turns heavy and goes on for too long. That is a pity, for the music, or what one hears of it through the galumphing, is attractive.

Logan Hall

Janet Baker by ELIZABETH FORBES

The Camden Festival drew to a triumphant close on Saturday night with a recital given by Janet Baker and Geoffrey Parsons at the Logan Hall. Rarely can artistry and dedication have been presented in such pure, intense form. Many singers treat an opening group of oris antiche merely as a means of warming up their own voices or of setting the audience's attention. Not so Dame Janet, who lavished all her interpretative skill on each and every item in the programme and from the first note of the first song—Calderara's "Selva umida"—held her listeners in the vicelike grip of her own concentration. Martin's tenderly regretful "Plaisir d'amour" established a mood of sorrowful love that Pergolesi's "Ogni pena" further explored. In the next group it was a particular pleasure to hear several songs by Mendelssohn sung without a trace of condescension. The piano playing of Geoffrey Parsons contributed greatly to the enjoyment of these accomplished if scarcely

intellectual settings. The elfin charm of the accompaniment to "Nene—Liebe" brilliantly evoked Henze's poem while in the familiar and well-loved "Auf Flügeln des Gesanges" also a setting of Heine—singer and pianist together achieved a simplicity and directness of utterance entirely free from false naivety. In "Nachtlied" Dame Janet's exquisitely fine-spun line had the strength as well as the delicacy of silk. The more robust humours of "Hexentanz" were expressed in appropriately full, resonant tones. The second half of the programme began with "Poème d'un Jour." Faure's setting of verses by Charles Grandmougin. In "Requiem" Dame Janet had not wholly regained the total absorption that characterises her singing, but "Toujours" and "Adeu," the second and third songs in this miniature cycle, caught to perfection the elusive, bitter-sweet flavour of a love affair over almost before it has begun. Debussy's "Mandoline" displayed the splendid articulation, both vocal and pianistic, of

main intrigue and an amateur wind-and-brass band for Quixote's major flights of fancy. The Roeling ensemble, at the Round House at least, is poked away in holes in Ralph Koltai's otherwise ingenious set, the big band (from William Ellis School) is up in the balcony. The contest is effective and the dovetailing neatly done by the two conductors, Jan Latham-Koenig (down) and Richard Hickman (up). The small ensemble includes instruments Paisiello never knew. With their aid Henze has contrived some entertaining accompaniments, though one or two of the percussion effects come round too often. Because the producer Tom Hawkes has chosen a knockabout, jokey style with bawdy oaths uttered in the winning way English opera singers use when they are trying to act like real comics, one has the uncomfortable feeling of missing good things from the half-submerged downstairs orchestra (the balcony band has it easier).

Judging from the amount of ill-tuned singing, some of the performers also found it difficult to hear the small orchestra. Exceptions were the ever-reliable Kenneth Bowen as Quixote, Alan Opie as Sancho Panza, Kate Flowers as Carmosina and, when she was allowed to stand still and sing, Alison Hargan as the Countess. Sancho and Carmosina had the two most useful numbers—for her a six-eight solo in the first part, for them both a pretty duet towards the end of the opera. The story deals with the efforts of some up-country gentry to make sport of Quixote (in fact they spend more time on their own uninteresting love-affairs) and the knight's ability to rise serenely if doltily above them and their pranks. It hardly needed a theatre musician of Henze's calibre to make the point.

Teatro alla Scala, Milan

Mosè and Bohème by RONALD CRICHTON

An event of the present season at La Scala has been a revival of one of the grandest of Rossini's serious operas, *Mosè*. This is the usual title for the Italian version of his *Moses in Egypt* produced in Paris in 1827, a re-composition and expansion of the earlier *Mosè in Egitto* given at Naples in 1818—Rossini revised the third act the following year, adding the work's most famous number, the Prayer "Dal tuo stellato soglio." *Mosè* was his last opera but two. Only *Le Comte Ory* and *Guillaume Tell* were to follow. The Prayer apart, there are no single numbers which have become popular, yet the grandeur and mastery of this opera of choruses and ensembles has kept it in the repertoire even when interest in Rossini's serious side was minimal.

The new Scala version is *Mosè* sung in Italian, revised (with one eye on the first Italian edition of the score) by Jesús López Cobos, who conducts the performances and is preparing a new critical edition of the score. Producer and designer are Luciano Damiani. The results have not provoked much enthusiasm, yet the production is not a fiasco—re-planning of the lighting and stronger all-round casting would make all the difference. In a discussion with Damiani printed in the programme López Cobos claims that the version given is "almost" complete, but admits cutting some repeats, mainly it seems for the benefit of the singers. This does not necessarily benefit Rossini, whose big structures become lop-sided.

Moses was the Russian bass Evgeny Nesterenko, the voice ever more imposing and richly coloured, dignified in his slow movements yet never fully commanding the stage until the Prayer in the last scene. The Pharaoh of Simon Estes, though seated on a throne for much of the action, had more character. His lighter, more incisive singing, told well against the other. Of the ladies only Julia Hamari as Pharaoh's wife Sinaida made much effect—her scene in Act 2 (the first two acts were done without a break, and very long if they seemed) was brilliant not only for the relish and confidence with which Miss Hamari sang Sinaida's music but because during this scene she was brightly lit.

The production as a whole was a curious demonstration of how in the opera house ear and eye interact. *Mosè* is much concerned with darkness, most of it summoned up by the protagonist. But stage darkness can be simulated without creating confusion—it doesn't need follow-spots to make the singers' features clear enough for the recognisable. I am still not absolutely certain that I correctly identified Elisero—

the name given in the libretto to the brother of Moses—though one tenor voice presumably belonging to Giampaolo Corradi was lighter and more agile than the sound made by Vincenzo Bello, who sang the heavier (and very demanding) first tenor part of Pharaoh's son Amnophia, whose love for the Jewish girl Anaide complicates the efforts of Moses to lead the Jews out of Egyptian captivity. This fundamental miscalculation was the stranger for Damiani's professed intention to make *Mosè* more drama than oratorio (Rossini's description of the original was *azione tragico-sacra*) but what came out was precisely an oratorio, seen more over by emergency lighting. Can there have been a better Musetta than Lucia Popp since Weltsch? The middle voice is now as beautiful as the top. Pavarotti's big bear of a Rodolfo is the ideal complement to the Mimi of Corubas. The sympathetic quality of Cappuccelli's Marcello was a surprise—he isn't often allowed a comic role. Nesterenko made a haunting Russian romance out of Colline's solo. Kleiber's extremely but not intolerably elastic conducting produced as brilliantly expressive playing by the Scala orchestra as an unforgettable *Butterfly* under de Sabata many years back.

The pathetic, appealing quality of Illeana Cotrubas as Mimi could be foreseen, not however the full poignancy of her last act, where the fading yet beautifully poised line was so perfectly matched by the conductor's gift for intensity in extremely soft playing. Can there have been a better Musetta than Lucia Popp since Weltsch? The middle voice is now as beautiful as the top. Pavarotti's big bear of a Rodolfo is the ideal complement to the Mimi of Corubas. The sympathetic quality of Cappuccelli's Marcello was a surprise—he isn't often allowed a comic role. Nesterenko made a haunting Russian romance out of Colline's solo. Kleiber's extremely but not intolerably elastic conducting produced as brilliantly expressive playing by the Scala orchestra as an unforgettable *Butterfly* under de Sabata many years back.

The obscurity on stage no doubt added to the audience's irritation. The upper reaches of the house objected to the ballets (there was a clumsy device of blackouts to get the chorus off and on again) though they were completely done in choreography by Geoffrey Cauley. The gallery also gave the bird to poor Amnophia, namely as he wrestled with his difficult part. But they applauded the *Anaide* of Maria Barazzini for her strong top notes, overlooking some ill-tuned smudging lower down. Luigi Roni sang the priest Osiride, completing the Egyptian team, vocally at least stronger than their adversaries.

The orchestral playing under López Cobos was clear, well-ordered and generally distinguished yet short of majesty for things like the big brass accompanied recitative of Moses, "Eternel immenso! incompréhensible Dieu!" Considering the limitations of some of the singers the big ensembles went pretty well, notably "Mi manca la voce" (full of Verdian premonitions) in Act 3 and the superb G minor introduction to the previous act with the snake theme winding its way through key after key. The Prayer in its cunning simplicity made the usual rousing effect.

The previous evening brought a chance of seeing the famous Zeffirelli production of *La Bohème* (only five years younger than the equally historic Visconti *Don Carlos* at Covent Garden) with Kleiber conducting and a cast difficult to better today. The staging has

Royal Court

Cloud Nine by B. A. YOUNG

"You write so well, and have so much learning," Richard Strauss said to Hindemith, "that I wonder you do not write music." I feel a similar emotion about Caryl Churchill. *Cloud Nine* is full of good lines and effective little situations; but at the end of it I felt we had seen nothing more than an enjoyable exhibition of the splendid acting of the Joint Stock Theatre Group.

The play is in two distinct halves. The first employs all the current disparaging ideas about the Colonial era. It is as ill-informed as it is ill-natured, but neither characteristic matters much, since it takes the form of a cartoon in which historical accuracy is not essential. Clive, played by Antony Sher, is a Colonial archetype, and Betty (Jim Hooper) his archetypal wife. Their small son Edward (Julie Covington) is different, however: he plays with dolls and has dirty secret games with Harry Bagley, the great, but gay, explorer (William Royland).

Establishing this pattern appears to be all that the first act aims to do. The second act, set in our own time, also confines itself to setting a pattern, but it is a very different one. Edward, now played by Jim Hooper, lives with another

man of dubious fidelity. His sister Victoria (Miriam Margolyes), who was only a doll in Act 1, is now married, but is thinking of leaving her husband to go and work in Manchester. She also leans towards a lesbian relationship with Lin (Carole Hayman), a single parent with a tiresome daughter Cathy (Antony Sher), who vies with her in foulness of mouth.

But here it is all over again, nothing but actual or potential switching of partners, the sexual preferences being casual in the extreme. Should we learn something from the comparison of the two worlds? I learnt nothing, I'm afraid. The Joint Stock Company is talented and versatile I knew already, and that Max Stafford-Clark is a director of elegant talent. If the aim is to show, as the theme song suggests, that any kind of sexual union may be blissful, this is old news by now, and was indeed demonstrated rather more clearly in the simple unsophistication of Rony Robinson's piece at the Theatre Royal, Stratford, yesterday.

If this was not the aim, I am sorry to have missed something that I have no doubt I should have been wiser for knowing. Meanwhile, I can at least repeat that the playing of the company, transsexual or otherwise, is matchlessly good.



Julie Covington and Jim Hooper

Two singers win Miriam Licette award

The £1,500 Miriam Licette singing scholarship has been awarded, for the first time, to two singers, the Arts Council has announced. They are Anna Marie Holroyd, 23, of Headington, Oxfordshire, and Mary King, 26, of West Hampstead, London. The scholarship is awarded annually to female singers under the age of 30 for advanced study in Paris.

BUILDING SOCIETY RATES

	Deposit rate	Share accounts	Sub'p shares		Term Shares
Abbey National	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Ald to Thrift	8.25	8.75	—	—	—
Alliance	7.75	8.00	8.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Anglia Hastings and Thanet	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Bradford and Bingley	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Bridgewater	7.75	8.00	9.50	9.50	4 yrs., 9.10 2 yrs., 8.75 2 yrs.
Bristol and West	7.75	8.00	9.25	—	—
Bristol Economic	7.75	8.00	9.25	8.25	3 months notice
Britannia	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Burnley	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Cardiff	7.75	8.50	9.50	—	—
Catholic	7.50	8.20	9.00	—	• 8.40 over £5,000
Chelsea	7.75	8.00	9.25	8.75	6 mths. not £500 min. 8.50 3 mths.
Cheltenham and Gloucester	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Citizens Regency	7.75	8.30	9.80	9.55	4 yrs., 9.30 3 yrs., 9.05 2 yrs.
City of London	8.00	8.30	9.25	9.25	3 yrs. increment share min. £500
Coventry Economic	7.75	8.00	9.25	9.00	3 yrs. min., 8.50 3 mths. notice
Coventry Provident	7.75	8.00	10.00	9.50	4 yrs., 9.25 3 yrs., 8.75 2 yrs.
Derbyshire	7.75	8.00	9.25	8.50	up to 3 months' notice
Ealing and Acton	7.75	8.50	—	9.15	2 yrs., £2,000 minimum sum
Gateway	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Greenwich	6.45	6.10	9.25	9.60	4 yrs., 9.10 3 yrs., 8.25 2 yrs.
Guardian	7.75	8.25	8.50	9.00	£1,000 3 months' notice
Halifax	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Heart of England	7.75	8.00	9.25	9.00	3 yrs., 8.50 3 months' notice
Hearts of Oak and Enfield	7.75	8.25	9.75	9.25	3 yrs., 9.00 2 yrs., 8.71 1 yr.
Hendon	8.00	8.50	—	9.00	6 months, minimum £2,000
Huddersfield and Bradford	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 mths.
Lambeth	7.75	8.30	9.75	9.00	3 months' notice, £250-£5,000
Leamington Spa	7.55	8.10	10.07	8.85	2 years. • 3 years
Leeds Permanent	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Leicester	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.25 3 mths.
Liverpool	7.75	8.00	9.45	9.10	3 yrs., 8.60 2 yrs., min. £1,000
London Goldhawk	7.75	8.50	9.75	9.25	2 yrs., 9.00 1 yr.
Melton Mowbray	7.55	8.10	9.25	8.85	2 yrs., minimum £2,000
Mornington	8.25	8.75	—	—	—
National Counties	8.00	8.30	9.30	9.40	6 mths., 8.75 3 mths., min. £1,000
Nationwide	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Newcastle Permanent	7.75	8.00	9.30	9.50	4 yrs., 9.30 3 yrs., 9.00 2 yrs.
New Cross	8.50	8.75	—	—	—
Northern Rock	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Norwich	7.75	8.00	9.50	9.00	3 yrs., 8.75 2 yrs., min. £500
Paddington	7.40	8.40	10.00	9.00	3 months., 9.25 6 mths., min. £1,000
Peckham Mutual	8.00	8.50	—	—	—
Portman	7.75	8.00	9.25	9.00	3 yrs., 8.75 1 yr., 8.25 3 mths.
Principality	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Progressive	8.00	8.25	9.25	9.50	4 yrs., 9.00 2 yrs., 8.75 3 months
Property Owners	7.75	8.50	9.75	9.00	3 months' notice
Provincial	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Skipton	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Sussex Mutual	7.75	8.35	10.00	8.30	3 yrs., 9.00 2 yrs., 8.75 1 yr.
Town and Country	7.75	8.00	10.00	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.
Walthamstow	7.75	8.10	9.20	9.60	4 yrs., 8.85 3 mths. not min. £500
Woolwich	7.75	8.00	9.25	9.50	4 yrs., 9.00 3 yrs., 8.50 2 yrs.

* Rates normally variable in line with changes in ordinary share rates.

† Includes 0.25% Centenary Bonus throughout 1979.

All these rates are after basic rate tax liability has been settled on behalf of the investor.

FOOTBALL BY TREVOR BAILEY

Arsenal to Wembley with win over Wolves

ARSENAL BEAT a sadly inept Wolverhampton Wanderers by 2-0 to reach Wembley for the second time in succession.

In last year's semi-final they outclassed Orient, who looked an indifferent Second Division team and played like one, while on this occasion it was easy to understand why Wolves are still in the relegation zone.

The Midlands can consider themselves fortunate that there are so many indifferent First Division teams, because in a vintage season they would surely go down.

The first 45 minutes were slow and seemed to last twice as long, containing those ingredients responsible for so many indifferent semi-finals.

The fear of defeat dominated everything else, with two four-man midfield formations more concerned with providing additional cover for their respective rearwards than support for the two-man forward lines.

It was full of frantic running, heavy distribution and mistakes. The main attacking play was the high punt upfield and the

most popular pass was back to the goalkeeper.

Even in that painful period the Gunners provided 80 per cent of the football and 90 per cent of the ideas, so that it came as no surprise when they took control after the interval. Stapleton, whose skill, courage and effort proved a constant source of embarrassment for a suspect back four, deservedly gave his side the lead with a spectacular shot. Later his partner upfront, Sunderland, pounced on a defensive error to shoot under the advancing keeper.

The Gunners now have the opportunity to make amends, not for losing the final against Ipswich, but for the way they lost it.

Can they do it, even though their new opponents, either Liverpool or Manchester United, will provide more formidable opposition?

The answer is an unqualified yes. The present Arsenal, although it may be little better as a footballing combination than the one that froze at Wembley, does possess more character and experience.

These two virtues count for much on the big occasion. It enabled them to pull out that little extra when things were not quite clicking in the first half.

It also allowed them at Villa Park to overcome the considerable handicap of being without their world-class international and main inspiration Liam Brady. The outstanding sides are not those who win when playing well, but those who still win when not at their best.

There are other omens in Arsenal's favour. Losing FA finalists who return in the following year have a good record of success.

Since the war Manchester United, Manchester City and Charlton Athletic have all triumphed at their second attempt.

Favourites also have had an unhappy record at Wembley in recent years, falling, indeed, on the last three occasions. This time the Gunners are unlikely to be the fancied side.

The biggest threat to Arsenal's capturing the Cup could well be their lack of high-quality cover.

Although young Gattuso performed admirably within his limitations and looks a fine prospect for the future, he is not yet the class First Division half-back he should become.

Messrs. Neil and Howe have to try to see their players avoid injury, but at the same time they cannot afford to have them hold back in League matches.

This could so easily bring about a losing sequence and undermine the existing high morale, especially as Liverpool will continue to churn out the right results, Manchester United seem to have struck their best form, and both have exceptional back-up squads.

The Barnwell and Barker combination which took control at Molineux in November, when the club appeared to be inexorably heading down into the Second Division, have done a splendid rescue job with limited playing resources.

Their tactical policy has been deliberately and inevitably frugal, with the emphasis on exploiting mistakes by the opposition and not giving the ball away themselves, rather

than creation; bread-and-butter football, with little butter and no jam.

If his team avoids relegation, then John Barnwell can rightly claim that his rather dull methods have been fully justified.

In his brief, lucid and admirably fair summary up to the Press after the match, John showed that he recognised the need to rebuild next season.

His present team may have been good enough to reach the semi-final, though it must be mentioned that they never encountered First Division opposition on the way, but it was all too obvious on Saturday that they simply did not possess the class required to win honours in England and Europe.

It will probably take the Barnwell-Barker partnership two, perhaps three years to bring real glory back to Wolverhampton, but this pair have the ability and the determination to succeed.

It is to be hoped that the Midland supporters, who are inclined to be impatient, do not expect an overnight miracle.

FINANCIAL TIMES

BRACKEN HOUSE, CANNON STREET, LONDON EC4A 3DF

Telegrams: Finantime, London FSA. Telex: 836341/2, 833397

Telephone: 01-248 3000

Monday April 2 1979

Security is not enough

IT WOULD be impossible to prove, and it is in any case not very likely, that the present outbreak of attacks by the Provisional IRA and other related bodies would have been less vicious if British policy towards Ireland over the past year or so had been different. Acts such as the assassination of Mr. Airey Neave and the British Ambassador to The Hague, Sir Richard Sykes, appear to be those of people who are pursuing violence for its own sake and who are not open to any kind of political argument. They are to be utterly condemned.

Warnings

At the same time, however, it would be hard to maintain that British policy recently has been a conspicuous success. Mr. Roy Mason, the Secretary of State for Northern Ireland, deserves some credit for the way he helped to improve security and even to attract some economic investment to the province. Yet it has been clear for some months that the reduction in the level of violence has gone about as far as it can possibly go under present policies. Both police and army officers have been warning that the Provisional IRA had undergone a period of reorganisation and that it was preparing to strike more efficiently and at a geographically wider range of targets than in the past. In that sense, the events of the last few weeks are not entirely surprising.

There must also be some doubts about a policy which continues to pour money into Ulster without any economic justification. The Kilroot power station, which will produce enormous excess capacity, is one example. Another is the McLean car plant, which simply went to the bidder who was prepared to offer the highest subsidy.

The tightening of security as practised by Mr. Mason was desirable in itself. There must also have been something more to be said for his policy of distributing financial largesse if it had been accompanied by a political dimension. All too plainly, it was not. British policy towards Ulster, especially in the last few months, has been characterised by an apparent readiness to lean towards the Unionists at the expense of the Catholics. The Bill to increase the number of Ulster MPs at

A temporary price freeze

AS WAS ONLY to be expected in the run-up to the general election, Mr. John Silkin, the British Minister of Agriculture, has been claiming a good deal of credit for the outcome of last week's farm price talks in Brussels. It is not clear, however, that the result was all that much of a triumph, either for Britain or for the Community at large.

It is true that Mr. Silkin argued, with admirable persistence, in favour of the Commission's proposal that there should be a general freeze of the national "common" prices, but it would be an illusion to suppose that his arguments have won over his opponents in other member states. If in practice there will be a price freeze for at least three months, this is not because the Nine positively agreed, but only because they remained deadlocked, and had little option but to extend the current price regime.

Doggedness

The defeat of the British Government and the imminence of the election campaign ruled out the convening of another farm ministers' Council in the near future, and the earliest date that negotiations can resume again will be the middle of May. Since no-one expected agreement to be reached at the first or even the second session of the new round, it seemed prudent to assume that current prices would have to remain in force until the end of June. Mr. Silkin by his doggedness, and the government by its defeat in the House of Commons, have certainly delayed any increase in the "common" price levels. But it would be premature to assume that the principle of a price freeze has made substantial headway in the Council of Ministers.

The other side of the coin, of course, is that the deadlock over prices also included a deadlock over the Commission's proposals for new taxes on milk production. These taxes cannot now be imposed, on the best hypothesis, until September. It is a safe bet, therefore, that the milk surplus, which is already pre-eminent among the expensive scandals of the common agricultural policy, will become even larger and more expensive this year. Last year intervention buying of surplus milk cost the Community £2.5bn, and preliminary esti-

Westminster may have been justified on the grounds that the province is seriously under-represented in comparison with other parts of the UK. But it was widely seen as a device to buy Unionist support in order to keep the Government in power a little longer. It is also inexcusable that it should have contained no provision for proportional representation, despite the special Ulster circumstances. The principle of "power-sharing"—or whatever similar term one chooses to use—seems to have been dropped.

In these circumstances, it is understandable that the Catholic community in Ulster should have become more isolated and more alienated. That is not to say that there is much support for the Provisional IRA and its offshoots. Indeed it is striking that one of the most moving tributes to Mr. Neave came from Mr. Gerry Fitt, the sole representative at Westminster of the Social and Democratic Labour Party. But it is to say that there is a dangerous political vacuum in which support for the IRA could yet grow.

No government is more aware of this than that of the Irish Republic. For ultimately the IRA threat to Dublin is greater than it is to the British mainland. In Britain the violence can be almost certainly contained, though at a price, but in the Republic it is a potential threat to the very system. That is why Irish governments no longer seem to condone IRA activities. Their co-operation with the British authorities in security matters is now almost complete. There is also no longer any official demand for the withdrawal of British troops from Ulster.

Objective

Yet there remains one element in the Irish position that the British Government has recently overlooked. It is that the search for a political settlement that takes account of the Catholic community in Ulster should not be forgotten. After the killing of Mr. Neave security will again have to be tightened. But a security policy alone is not enough. There must also be a political objective. That will be a major task of the next British government by whichever party it is formed—even if it means going back to Sunningdale.

mates suggest this year's bill may reach £2.5bn. Few British voters will ever have heard of the Commission's milk tax proposals, and claims of a three-month price freeze may sound impressive from election platforms. But in terms of what has actually been achieved, it is not at all obvious that the bargain comes out on the plus side, either for the Community or for Britain.

The doubts are particularly acute in the case of Britain's national interest, since the cost of the surplus of milk (as of other products) falls more heavily on the British taxpayer than on his continental counterparts. As it is, Britain is already, we now learn, the biggest net contributor to the Community budget, and the bill is expected to rise, despite the fact that it is one of the poorer Community countries.

None of this should be taken as decrying the principle of a freeze on the "common" prices; on the contrary. We have long argued that the Community's farm price levels are far too high—that is why they lead to the production of unsaleable surpluses—and should be brought down. Taken in isolation, a reduction in price levels is almost certainly unattainable on political grounds, so the next best thing is a price freeze on surplus products.

Compromise

In that sense the only positive decision which did emerge from the Council—the devaluation of the British, French, Italian and Irish "green" currencies—was a tolerable compromise with reality. Farmers in these countries will get a small increase in prices (though still less than the rate of inflation), while German farmers, whose prices are already far the highest in the Community, get no increase.

The trouble with the Silkin approach is that, by its exclusive concentration on the electorally appealing slogan of a price freeze, it has prevented substantive negotiation on other less dramatic measures which could have played a useful part in curbing surpluses and reforming farm structures in Europe. Any reform of the farm policy is bound to be a slow process, and it is bound to be more complicated than Mr. Silkin's plan for a four-year price freeze. The name of the game is negotiation, not confrontation.

THE PENNSYLVANIA REACTOR ACCIDENT

A major setback to U.S. nuclear power

By David Lascelles in New York and David Buchan in Washington

AMERICA HAS gone through a tense weekend watching and waiting while engineers grappled with the country's worst nuclear accident to date—a crippled and leaking nuclear power station in Pennsylvania.

By yesterday, five days after the cooling system at the Three Mile Island River had failed and radioactive steam had spewed into the atmosphere, it was still not clear how the emergency would end. Pressure and temperature in the damaged reactor core were high. Nobody could get near because of escaped radiation. It will probably not be possible to approach it before tomorrow or Wednesday.

Danger likely to recede

Although the reactor was stable, the cooling process was complicated by the presence in the core of a steam and hydrogen bubble. Officials feared it could force out cooling water as pressure was reduced and expose the fuel rods or explode itself.

It appeared though that the worst catastrophe, reactor melt-down—which officials of the Nuclear Regulatory Commission said earlier could not be ruled out—was unlikely and that the danger was receding as time passed.

Even if the emergency ends in the next few days, and the thousands of people who fled the area return safely to their homes, the incident is little short of a disaster for the cause of nuclear power. The case for nuclear power has just begun to regain momentum because of fuel shortages caused by the Iranian crisis. The repercussions of what happened at Three Mile Island may well spread to other countries engaged in the nuclear debate.

It is the second nuclear story to reach the headlines in two weeks. In mid-March, five atomic power stations were shut down because of faulty design. Not surprisingly, shares of nuclear companies slumped on Wall Street at the end of last week.

The accident was triggered in the early hours of last Wednesday by a faulty pump and made worse by human error when an emergency cooling system was mistakenly turned off, overheating the core for a time. Subsequently some of the water which had leaked out to the reactor floor was mistakenly piped to an auxiliary building which had no radiation filters. What was originally presented as a minor accident escalated in the next two days as complications developed with cooling, and radioactive steam escaped from the containment building.

By Friday, the Governor of Pennsylvania, advised pregnant

women and young children in the immediate area to leave and people within 10 miles of the power station to close their doors and windows. Schools within a five-mile radius were closed. By Saturday, thousands more had left the neighbouring towns, leaving them ghost-like and empty and prompting the authorities to declare a curfew to prevent looting.

President Jimmy Carter issued a statement urging Pennsylvania officials to "err on the side of safety and caution" and opened up a hot line from the site to the White House. Ironically, he was cloistered away preparing a major statement on energy policy for later this week. Public reaction at all levels was swift and sharp. Dozens of anti nuclear protesters descended on the area with their banners and leaflets, and in Washington, Congressional leaders were outspoken in their criticism.

The Senate majority leader, Mr. Robert Byrd, said the accident had shattered people's faith in nuclear power. Senator Edward Kennedy wrote to Dr. James Schlesinger, the Energy Secretary (who was still valiantly defending the long-term safety record of nuclear power) that "it was more important to build these plants safely than to build them quickly." Senator Henry Jackson, Chairman of the Senate Energy Committee, perhaps the single most influential figure on energy policy and not an outright opponent of nuclear power, said the accident would hurt the nuclear programme and leave it in "semi-limbo."

Many of the statements may have been hasty responses to an atmosphere of crisis, but the fact remains that the accident could hardly have come at a more critical time for all those involved on either side in the nuclear debate, which means most of the country. The timing is also ironic given the recent release of the China Syndrome, a highly publicised film starring Miss Jane Fonda about an uncannily prescient crisis at a Californian nuclear power plant. It contains the line that a nuclear accident would render permanently uninhabitable an area "the size of Pennsylvania."

Growing energy problems

For the backers of nuclear power all of this is most unfortunate, since the accident happened just as the country's mounting energy problems might well have brought about a shift of public and congressional opinion on to their side.

There have been a few straws in the wind in recent months. The environmental lobby, long the major rallying point of nuclear opponents, has been weakened somewhat by the growing awareness that coal must be mined, refineries built,

The reactor: British interest: Previous accidents

Three Mile Island 2 is a newly-completed 880 MW pressurised water reactor (PWR) built by the U.S. company Babcock and Wilcox. It was still being commissioned when the accident happened. Its owners, Metropolitan Edison, have operated a slightly smaller (800 MW) reactor of the same kind and make since 1974.

There are more commercial PWRs operating in the world today than all other types of reactor combined. Of a total of 523 commercial reactors operating, under construction or ordered throughout the world, 283 are of this type. It is the reactor used in submarines, including British nuclear submarines. Britain is currently building a PWR in Scotland for the navy to use in demonstration and training. The Babcock and Wilcox reactor is one of four designs—three American, one German—being evaluated by the British Central Electricity Generating Board, with a view to ordering a commercial demonstration plant in Britain in the early 1980s. The aim of this demonstration would be to see whether this type of reactor holds significant advantages for the electricity supply industry over British designs of gas-cooled reactor. The PWR, with its water cooling, is a more compact reactor—hence its use in submarines. But the most obvious advantage for Britain appears to lie in the fact that much more of the PWR can be prefabricated in the factory than is the case with British designs.

The most obvious disadvantage seems to be that, should an accident occur, events happen more swiftly than with the UK designs, which allow hours instead of minutes for crucial decisions to be taken. A melt-down is the worst kind of accident which can happen to a nuclear reactor. It is the melting of the nuclear fuel when the

exhaustion of many available fields, the burden will have to be borne by other fuels. Only coal and uranium offer any long-term prospects. Uranium has the advantage over coal that it is easier to mine and process electricity more cheaply. On a cost basis where uranium is 15, coal is 20, and oil 40.

The nuclear engineering industry believes it could install enough nuclear power capacity by the end of this century to save about 15m barrels of oil a day, equivalent nearly to total present-day consumption. Given the go-ahead now, it says it would be able to produce the new generation of fast "breeder" reactors on a commercial basis early in the 21st century.

However, the environmental lobby combined with uneconomic circumstances had all but stalled nuclear power development by the end of last year. Since 1974, nearly 200 orders for nuclear power stations had been cancelled or postponed. Last year only two new orders were announced. Currently 128 power stations are under construction or otherwise in the pipeline. They will be completed by the mid-1980s. Because of the long lead time, more orders will have to be placed very soon, the industry argues if the momentum is to be maintained. Not surprisingly the industry is concerned with the threat of recession and

unemployment once the orders on its books are completed and it has been mounting a powerful lobby in favour of more nuclear power.

However, the fate of nuclear power has always hinged on the question of safety. That is why the Three Mile Island incident will be so damaging, even though the only victims so far are four workers who have been treated for mild exposure to radiation. But the question has become so tangled in the heat of debate that few can view it unemotionally.

No nuclear deaths

Since nuclear power for peaceful purposes got underway after the last war, there has not been a single death in the U.S. from an accident at a nuclear power station. On average 200 coal miners are killed each year, and at least one person a year dies from gas leaks in New York where more explosive power runs through the mains in a day than was contained in the Hiroshima bomb.

U.S. nuclear insurers have paid out less than \$1m in claims since 1957, the year such insurance started.

But as a close observer of the debate remarked "for most people nuclear risks are still in

the realm of witchcraft." This was borne out by a recent finding by the Roper Organisation, a public opinion research company, that 49 per cent of the population did not understand what nuclear power was all about. Given that people are reluctant to confess to ignorance, that result is held to under-represent the extent of existing ignorance.

But if the public is confused, the likely effect of Three Mile Island is clearer on Congress, in whose hands the future of nuclear power probably lies. Senator Jackson and his energy committee had been working towards greater acceptance of the need for nuclear energy. In fact the debate among its members assumed that nuclear power would go ahead and concentrated more on details such as how spent fuel should be transported and whether fast breeders should be cooled by gas or sodium.

Doubts on new initiative

However, judging by the immediate reaction of Congressmen to the accident, any pro-nuclear initiative now must be under a cloud. There has been a succession of calls from Capitol Hill for closer monitoring and control of the nuclear power industry and suggestions that the burden of future energy development must be shifted from nuclear power to coal.

The Chairman of the Senate sub-committee on nuclear regulation, Mr. Gary Hart, who visited the stricken reactor with his staff last week, said he would introduce legislation requiring the federal Government to monitor reactors, and assume full control immediately in the event of a crisis. At Three Mile Island, the Pennsylvania State authorities, the plant management, and the Nuclear Regulatory Commission, a federal agency, have all been involved, at times cutting across each other.

Representative Morris Udall has called his House Energy and Environmental sub-committee into session to take testimony from the nuclear regulatory commission—whose own role is bound to come under scrutiny because of the crisis. Mr. Carter, who has been an enthusiastic supporter of nuclear power, may elaborate his own position on the subject in his energy statement this week. So far, he has only said that the accident points to the need to review safety standards a procedure which itself could take years.

It therefore seems the unless the Three Mile Island emergency can be resolved quickly—which seems unlikely—and, more safely, the cause of nuclear power will have been set back by very many years—with possible grave consequences to U.S. energy policy for the rest of the century.

MEN AND MATTERS

The timing of a political novel

There is a grimly prophetic quality about The Ballot, a novel due to be published on April 30, three days before the general election. Written by Rowland Summerscales, a retired lobby correspondent, it describes a power struggle inside the Labour Party after Parliament has been dissolved and an election campaign is imminent. So the timing by the publisher, Robert Hale, is in itself remarkable enough. But one of the central incidents in the story is a political assassination by the Provisional IRA, by means of a car bomb.

I spoke yesterday to Summerscales, who was in the Westminster press corps for more than a quarter of a century—he is now 66. "The death of Airey Neave shocked me very much," he said. "But it did not surprise me. I have always regarded it as obvious that the IRA would sooner or later try to kill a leading politician."

Summerscales finished off the first draft of his novel 18 months ago. Although he has written four previous political thrillers under a pseudonym, it is 10 years since his last book appeared.

Big bounce

Within a few years, company executives in far-flung offices will be talking to one another by private TV links. At least, that is the forecast of Sid Topol, who is in the business of providing "earth stations"—giving access to satellite broadcasting—at costs he claims even individuals can now afford.

Topol has just been in London, briefing investors in Scientific-Atlanta, of which he is president. The corporation, which has passed the \$100m annual turnover mark, was started by six professors from Georgia Tech with 100 dollars apiece.

joined them in 1971 the earnings were \$16m a year. But the profits tended to do whatever took their fancy. So he paid \$2,000 a day to financial consultants and they steered him towards low-cost earth stations. He has now sold 850 and is mass-producing them at more than 80 a month.

He has his eyes at the moment on America's estimated 300,000 dollar millionaires. Most have ranches, he says, and even now they could be tapping at least 15 satellite TV stations.

Given the nature of most U.S. television, that may seem a curious way to enjoy your wealth. But Topol is not concerned with the ends of his technology, but the means. As one of the bankers listening to him at the weekend remarked: "It's a bit bewildering—all those gigahertz."

Blood and tar

With so much to worry about over the "Mudgergate" scandal, South Africa's rulers are hoping that an intensely domestic quarrel will not cause new divisions among their followers. This is the public tarring and feathering of Professor Floris van Jaarsveld, most distinguished of Afrikaner historians.

He was attacked on the platform of a theological conference organised by the University of South Africa. Leading the gang, which calls itself the Afrikaner Resistance Movement, was a former police bodyguard of State President John Vorster.

The "crime" of Professor van Jaarsveld is to have suggested that South Africa should rethink its annual celebrations of the Day of the Covenant, which marks the Afrikaner victory over the Zulus at Blood River in 1838. He says that for some of the country's people the celebrations are an insult.



"Ever since Edge Hill, I keep getting calls from MPs in every sort of marginal."

With remarkable aplomb, even trying to continue his 75-page learned dissertation. When one of the attackers tore off his jacket, he helped him with the buttons. "It was my best suit, however," he admitted.

The Afrikaner Resistance Movement justifies the tarring and feathering by saying that it was a defence of "everything that is sacred" against the desecrations of "dissipated academics and false prophets who hide under the mantle of learning."

Yet van Jaarsveld is the author of a standard school history textbook which English-speaking critics have condemned as "blatant Nationalist propaganda."

On her heels

Mrs. Thatcher will not merely be contending with her political opponents in the weeks ahead; she will also have to face up to the fashion writers. I gather that several of the popular papers have already decided to assign women reporters to the Tory leader—to keep the public closely informed on her clothes,

make-up and feminine demeanour at the hustings.

The sartorial side of electioneering is treated in a decidedly male chauvinist way, however, in a guide just released by the Clothing Manufacturers' Federation, the Shirts Manufacturers' Federation and even the Tie Manufacturers' Association. It tells how to score on TV, offering such gems as the need to avoid shirts with frayed or soiled collars, creased suits which look as if they have been slept in, and odd socks or shabby shoes. It says that a dowdy candidate may turn a "don't know" into a "no."

But perhaps the voters will be so satiated with the accounts of Mrs. Thatcher's style that the men will be able to stay as unkempt as ever, just letting the message speak for itself.

Withy workers

Volunteers stepped in at the weekend to help preserve Britain's ancient craft of basket-making. It has lately been brought almost to a halt by a lack of the basic materials; so the volunteers went to cut withies—as the branches are called—at Saxilby in Lincolnshire. The owner of the willow holt, or copse, is Charles Leggett, a basket-maker all his life. But he is now too old to do the work.

Mrs. Catherine Wilson, keeper of the Museum of Lincolnshire Life, led the volunteers. She says: "The skill of growing willow for basket-making is fast dying out. The holt had not been cut for three or four years."

The willow will be distributed to basket-makers who cannot at present get supplies.

Lost touch

The following announcement recently appeared in a Colorado newspaper: "Owing to unforeseen circumstances our daily horoscope has been suspended."

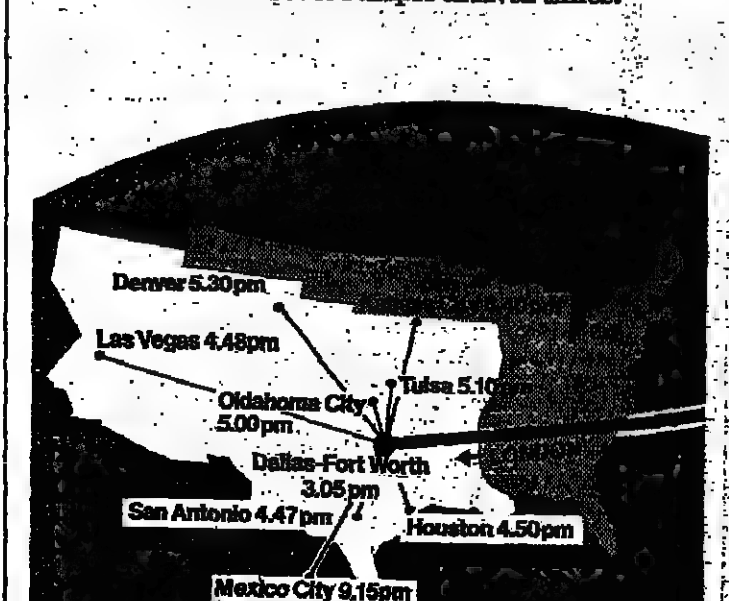
Observer

Fly the Big Orange.

London to Dallas-Fort Worth non-stop. Daily. It's got all the right connections in America's Big Country.

Braniff's colourful 747 takes off daily from London Gatwick at 11.45am to Dallas-Fort Worth, arriving at 3.05pm. At Dallas-Fort Worth there are immediate connections with Braniff flights to major cities throughout the Big Country and Mexico. Call your travel agent or Braniff reservations on 01-491 4631.

Here are some sample arrival times:



BRANIFF INTERNATIONAL
Albion, U.S.A. (Braniff Mexico), Alaska, Canada, South America and Europe

FINANCIAL TIMES SURVEY

Monday April 2 1979

مكتبة الشرق

South Korea

South Korea's economic growth during the past decade has been spectacular, particularly since a high proportion of GNP still has to be spent on defence. The country's first "industrial revolution"—based on cheap labour—is now coming to a close, and the economy is moving towards a greater emphasis on heavy industry. Meanwhile the authoritarian system of government continues to be a source of controversy inside and outside the country.

The race goes on

By Charles Smith
Far-East Editor

THE LATE President Sukarno of Indonesia once described the last year in which his shaky regime held power in Djakarta as "the Year of Living Dangerously." For South Korea, practically every year since the postwar partition of the Korean Peninsula has been a year of living dangerously, but the experience seems to have been invigorating.

South Korea lives in the shadow of one of the largest concentrations of military power on earth (quite a large portion of which consists of its own highly trained and heavily armed forces) but has still managed to build one of the most dynamic peacetime economies to be found anywhere in the world. In the years since the 1973 oil crisis (when most other nations suffered drastic recessions, or at least breaks, in their rate of economic growth), Korea's GNP continued to surge ahead, at the cost, admittedly, of very nearly being forced to

default on debts to the outside world in the early part of 1975.

Today's Korea appears, on most counts, as one of the most impressive examples to be found anywhere of what is coming to be known as a "new industrial economy"—in other words, a nation which has moved from undeveloped to almost developed status in the very recent past and which seems destined soon to challenge the fully developed nations. The average Korean citizen of 1978 was approximately 19 times better off than his 1960 forebear (in current prices) and can expect (if long-term Government projections turn out to be anywhere near accurate) to be four times richer again by the early 1990s.

It all seems too good to be true to western onlookers who have become accustomed to agonisingly slow growth rates and to the apparently insoluble problems of transforming outdated industrial structures. Yet Korea's high growth rate has brought its own problems, and some of them seem recently to have become fairly acute. It may not be too much to suggest that after a decade in which the GNP has seldom expanded by less than 10 per cent per year, the nation has now reached a major economic turning point.

A turning point can mean different things to different people: to the bureaucrats in the prices department of the Economic Planning Board (a body which still exercises supreme control over most aspects of the Korean economy) it means that the time has finally come to do something about the runaway inflation

which began to afflict Korea in the second half of the last year, after years of uninterrupted expansion. Prices went up, officially, by 14.4 per cent during 1978, but the real increase is put at between 20 and 25 per cent, and the Government cost of living index registered another four per cent increase in the first two months of 1979.

Crossroads

Tackling the inflation problem has meant not only using the Government's sweeping price control powers to the full (as is currently being done) but deliberately reducing the economy's growth rate through the imposition of tight money. (The target is 9.5 per cent for 1979, but some observers think the economy may continue to gallop ahead at a faster pace however strongly the government applies the brakes.) Dealing with inflation also means imposing severe controls on the amount of foreign exchange that Korean exporters may bring into the country (because too much foreign exchange might produce a dangerous impact on the domestic money circulation).

If one section of the Government sees Korea at a turning point in terms of domestic economic policy, another focuses mainly on the crossroads that the country seems to have reached in foreign trade. Korean exports grew by 40 per cent per year from 1972 (when they were a spectacularly low \$35m) to the late 1970s when they surged past the \$10bn mark. Exports consisted (and continue to consist) largely of simple manufactured goods,

with textiles providing a foundation and the electronics industry (and to lesser extent the newer heavy industries such as shipbuilding and machinery) providing the "cream." They now seem to have reached the point, however, where resistance from Korea's main overseas customers (the U.S., Europe and Japan in order of purchasing importance), calls for some fundamental rethinking.

The Ministry of Commerce and Industry, which has the unenviable task of seeing that export targets are met, admits that the amount of ingenuity required to do this is a good deal greater today than it was a few years ago. What is going to be needed in future is not just ingenuity but a fairly radical change in the make-up of Korean exports, with the emphasis shifting from "vulnerable" sectors like textiles to the heavy and more sophisticated products where Korea thinks barriers in world trade barriers may continue to be less formidable.

The switch from light industry to heavy industry and from labour-intensive to technology-intensive products makes sense from another point of view as well. Korean labour, once possibly the cheapest to be found in any Asian country where industrialisation was seriously under way, is no longer particularly cheap by regional standards—a fact which is hardly surprising after several years of consecutive 25 per cent wage increases.

Korea's cost effectiveness according to Government sources is now less than that of Taiwan, its principal rival in

basic export industries. The solution to this problem is to upgrade the productivity of labour by switching into more sophisticated sectors: the question which concerns everyone either directly or indirectly with Korea's economic future is asking how quickly and easily can this be done?

If the switch is made easily and quickly, which Korean officials claim is possible but which some sceptical outside observers (such as foreign bankers) obviously doubt, attention will shift to one other major problem which could (but it is hoped will not) block long-term economic growth prospects. Korea, like Japan, is a resource-poor country, with almost nothing to boast of in the way of domestic mineral deposits, apart from rapidly depleting supplies of low quality coal.

Competing

To keep up with the 10 per cent rate of growth envisaged for the economy up to 1990 (which in turn is claimed to be necessitated by a 3 per cent annual growth of the labour force, Korea will have to take its place as one of the world's large importers of raw materials, competing with though naturally not equalling the requirements of Japan and other top industrial countries. To acquire such raw materials may be possible but it will require more careful planning than Korea has put in up to now.

In tackling the new series of problems which seem likely to face it during the last half of the 1980s Korea will have to take account of one major

domestic factor. The economy has become more complex after years of rapid expansion and can no longer be managed by a small group of highly skilled and dedicated government planners, as was the case during the first decade and a half or so of industrialisation.

Korea's future will lie more in the hands of the newly emerging big business groups (with names like Hyundai, Daewoo and Samsung) than with the Economic Planning Board during the next five to ten years of economic development. It will, however, be in the hands of very much the same types of people as before: in other words successful management of the economy will depend on clever, highly educated young executives who will from now be working mainly within the private sector and to a lesser extent for the Government.

What no one seriously doubts, as the country contemplates the various options ahead of it today, is that Korea must continue to grow, and must eventually challenge advanced western countries (including Japan) in some of their current economic "strongholds." The rationale for Korean growth is so simple that it is sometimes not believed, but it makes sense to everyone who has spent long enough in Seoul to appreciate the intensity of the South's struggle for power and influence versus the North.

South Korea is engaged in a race to beat North Korea in terms of economic potential (and ultimately also in terms of military capacity) in preparation for the no doubt far off day when the current freeze on North-South relations ends and the two halves of the country

begin to consider the terms on which reunification might ultimately occur. The race was a more desperate affair in the early 1960s, when the South was predominantly agricultural and the North was already highly industrialised. It is still seen, however, as a matter of life or death—at least by the men who control the economy and make the decisions that count.

Whether the northern challenge also means that Korea has to continue to operate its current highly authoritarian system of government is a more controversial question, and one on which a fairly deep (if publicly suppressed) cleavage of opinion exists within the country. Supporters of the "Korean style of democracy" upheld by President Park Chung Hee (including quite a few politicians who technically belong on the opposite side of the National Assembly) claim that Korea cannot afford political turmoil while the North stands ready to "meddle" in the affairs of the South. It is also said that western-style democracy is not necessarily wholly suited to a society with strong Confucian traditions.

President Park's critics (who are to be found, most vocally among the university intellectuals and in Korea's large Christian community) say that while all this may be true, the effect of the system has been to satisfy the taste of a particular set of men for staying in power.

The arguments in favour of more or less democracy in Korea will no doubt continue to rage (and to be reflected outside the country in debates on such questions as whether or not the United States should maintain a military presence on the peninsula). What they seem unlikely to do is to change the actual political climate of the country—at least for as long as President Park and his colleagues remain in power. At 61, and with 18 years of Government behind him, Mr. Park is not exactly a newcomer, but he is probably also a good many years away from retirement. Only after his withdrawal from the scene (and perhaps after similar changes in the Northern leadership) is there any real likelihood that Korea will become a different place from the hard-driving, highly disciplined and dynamic society that it is today.

CONTENTS

Politics	II
North-South relations	II
The Economy	III
U.S. relations	IV
Links with Japan	IV
Trading companies	V
Banking	VI
Energy	VI
Trade	VII
Agriculture	VIII
Foreign investment	VIII
Industry	IX
Textiles	IX
Steel	X
Motors	X
Electronics	XI
Construction	XI
Shipping and Shipbuilding	XII

Daewoo—creative industry through technical cooperation



Concerted efforts by the member companies of Daewoo, a leader in the industrialization of modern Korea, now provide power plant, plant and industrial projects in nations around the world. In addition, Daewoo joint-ventures, including such names as GM, M.A.N., BBC, Babcock and ITT, provide you with the very best in creative industry.

At the same time, Daewoo welcomes your cooperation in supplying us with materials and resources, imports, additional technical and financial joint-ventures. We feel that, in a world growing smaller day by day, giving and receiving in a creative, cooperative way is the key to building a better world, a better tomorrow for those little ones following in our footsteps.



Representative of DAEWOO-built power facilities are Units 4,5 and 6 of the Ulsan Thermal Power Plant on Korea's East Coast, with a combined capacity of 1,200,000 Kilowatts. DAEWOO: the 40-member-plus family of firms that's building for a better tomorrow.

DAEWOO
C.P.O. BOX 2810 SEOUL, KOREA

FIRST in service to you — domestically and internationally.

Korea First is already a half-century tradition, offering complete domestic banking services in over 100 branches in cities and towns throughout Korea.

Now Korea First is serving customers in countries all over the world as well, through its network of six overseas branches and more than 1,000 correspondent banks.

So if you're looking for a bank with the most reputable of connections in Korea, and known for efficiency, come to Korea First.

Korea First — where 'first' means the best in speedy, unerring, and kind service to you.

KOREA FIRST BANK

CPO Box 2242

Seoul, Korea

Phone: 778-5611, 778-6511

Cable: FIRSTBANK

Telex: 23685, 24249 SEOUL

London Branch

80 Cannon Street, London EC4N 6HH

Telex: 889350 Phone: (01) 626-9264/6

100 DOMESTIC BRANCHES AND:

Osaka Branch

27-16, Motomachi, 2-Chome, Naniwa-Ku,

Osaka 558 Telex: J63882

New York Agency

410 Park Avenue, New York, N.Y. 10022

Telex: 238144

Los Angeles Agency

800 Wilshire Boulevard, Los Angeles, Calif.

90017 Telex: 668454

Chicago Branch

500 N. Dearborn Street, Chicago, Ill. 60610

Telex: 206090

Hong Kong Rep. Office

2516-2518, Connaught Centre, 1 Connaught

Place, Central, Hong Kong Telex: 88962



Hands up if you can guess
where Korean are flying to next.



Korean Air Lines announce the opening of their passenger and cargo services direct to New York from Seoul three times a week.

New York: the latest addition to Korean Air Lines fast expanding international network. Services that connect Europe, the

Middle East, the Far East and America. So next time, try Korean. You will enjoy discovering why Asia's youngest airline is already its second largest.

KOREAN AIR LINES
Be our guest.

Amsterdam Anchorage Bahrain Bangkok Colombo Dharam Fukuoka Hong Kong Honolulu Jakarta Kuala Lumpur Los Angeles Manila Nagoya New York Osaka Paris Seoul Taipei Tokyo Zurich

SOUTH KOREA II

Politics

Uneasy democracy



Criticism of the present system comes, most vocally, from the so-called dissidents who have made a point of attacking the Yushin constitution (despite the ban on criticism incorporated in Emergency Measure Number Nine) and who have sometimes been arrested for their pains.

The dissident leaders include former presidential candidate Mr. Kim Dae Jung (who provided a strong challenge to President Park in the last direct presidential election in 1977) and who was released from "hospital detention" just before the end of 1978. "Rank and file" dissidents are to be found in the Korean Christian community and among teachers and students—but many of the latter apparently graduate to become dedicated employees of the business establishment which provides the main private level support for the Park regime.

Parliamentary opposition to the Park government is provided by the New Democratic Party (and by the much smaller National Union Party). The NDP under its "middle of the road" leader Mr. Lee Chul-Seung, says Korea has to maintain a "balance" between national security and individual liberty, and has confined its criticisms of the government's emergency regulations to debates within the National Assembly.

A more vocal wing of the NDP, led by Dr. Kim Young-Sam, the party's former chairman, has attempted to stir up public opinion by attacking the emergency rules and to South Korea's general failure to "measure up to the standards" of Western democracy. Dr. Kim claims to have had an enthusiastic response from the half million South Korean residents of the United States but has found his political activities inside South Korea handicapped by indirect government action.

The views of ordinary people about the present political system remain something of a mystery. The fact that the NDP secured a marginally larger vote than the pro-government Democratic Republic Party in last December's elections to the National Assembly presumably should be read as a mild criticism of the regime—though it would appear that voters were protesting more against price rises and a recently introduced value added tax than against the government's stand on the basic issue of democracy versus stability.

A second feature of the 1978 election result, which may possibly have disturbed the Government more than the NDP's success, was the participation of very large numbers of independent candidates (255 as against 161 candidates of officially registered parties) and a sharp increase in the independent share of the total vote.

South Korea's electoral law are rigged against independent candidates, who have to pay bigger deposits than registered party candidates and have less freedom to campaign. The fact that so many people chose nevertheless to stand in the election, and that so many voters went to the polls (more than 80 per cent of the electorate) suggest that South Koreans have not lost their taste for democracy, no matter how much the Government would prefer them to opt for stability.

Charles Smith

which are subject to direct screening by censors. Its effect is to ensure that newspaper echo the official line fairly closely on political or foreign policy issues and to mute criticism of some of the more controversial aspects of the government's economic policy.

A final respect in which South Korea's democracy differs from most Western democratic systems is in the absence of the elected local government. The only popular elections held in the country are on a national level, for the two-thirds of the Assembly seats which are not filled by presidential nomination. A partial substitute for elected local government is to

sible, the pursuit of a "rational" economic policy which places national interests above regional interests. Regional interests are claimed to have interfered seriously with economic policy-making before the institution of the nomination system in 1973. The main argument against President Park's "Korean-style" democracy is that the system seems to have served to perpetuate rule by the same individuals—or individual, given that the president himself apparently exercises direct personal influence over a wide range of government decisions. The government's monopoly of contacts with North Korea is another controversial result.

PARTY STRENGTHS IN THE NATIONAL ASSEMBLY

	Number of seats won		Percentage of vote	
	1978	1973	1978	1973
Democratic Republic Party	73	68	31.7	33.3
New Democratic Party	51	52	33.5	32.7
Democratic Unification Party	3	3	7.4	10.3
Independents	32	18	28.1	18.7
Yujong-Moe	77	73		
Total	231	219		

be found in the Saemaul Undong (New Community) movement whose leaders are chosen by "consensus" at village (or factory) level. The fundamental justification offered by the government for withholding full democratic freedoms is that Western-style democratic forms are not "appropriate" for a country which has different traditions and is at a different stage of development from the West. A second point made by defenders of the system is that South Korea cannot afford "political turmoil" while it continues to face a hostile North Korea apparently dedicated to reunification of the country by force.

The introduction of an apparently permanent government majority into the national assembly (based on the one-third of the seats filled by presidential nomination plus those held by the pro-government Democratic Republic Party) is claimed to have made possible the system, though one that can be justified by the claim that the existence of a variety of channels for dealing with Pyongyang would simply increase the north's ability to "meddle" in South Korea's affairs. Yet another result has been to enable the government to determine very precisely who should benefit, how much, from the extremely rapid improvement in living standards in South Korea during the past few years. The government seems to have used its powers in this area to ensure that the rural population has not been left behind in the race towards better living standards and to prevent too large a gap opening between skilled and unskilled wage earners in industry. Somewhat controversially, it has also forged a close alliance with a handful of top business leaders, at the expense of smaller entrepreneurs and their employees.

North-South relations

Major differences remain

THE KOREAN peninsula is one of the few places in the world where relations between a Communist and a non-Communist Government continue to be conducted in a style reminiscent of the 1950s. The Government of President Park Chung Hee in the South has no relations, either official or unofficial, with that of President Kim Il Sung in the North. Movement across the Military Demarcation Line, which divides the two halves of the country is forbidden, and there is no telephone link or exchange of mail.

The concentration of military power along either side of the Demarcation Line (or to be exact to the north and south of the four kilometre wide Demilitarised Zone) is one of the heaviest in the world, involving over 1m men and more than 1,000 fighter aircraft (to say nothing of American nuclear warheads). Almost the only concession that North and South have made to the changing mood of the 1970s is to withdraw a ban on the adoption of a "two Koreas" policy by the outside world. South Korea currently has diplomatic relations with 105 governments while the score for North Korea (according to southern sources) is 93. These figures imply a considerable overlap—in other words there is no problem today for a country which wishes to maintain embassies in both Pyongyang and Seoul (provided it does not happen to be a major ally of either the South or the North).

Opinions differ about the likelihood of a military flare-up along the Demarcation Line, with the South claiming that such a thing could quite easily happen (the tunnels dug by North Korea, under the DMZ are cited as evidence of the North's "aggressive intentions") and the North declaring that war is unlikely. What no one appears to disagree about is that the odds against a peaceful reunification of the country are enormous—at least while the present leaderships remain in power.

The Northern formula for reunification, establishment of a confederation which would seek joint membership of the United Nations while the existing authorities continued to run things in their own way on either side of the frontier, is anathema to the South, which favours a step-by-step approach starting with exchanges of mail and the reunifying of divided families.

Because the differences are so wide, and because neither President Park nor President Kim seem to be the kind of men who would willingly step aside in the interests of reunification, the occasional negotiating sessions that have been held between the two sides are apt to be dismissed by outsiders as meaningless

rituals, indicating, at best, that one side or the other is trying to gain a few propaganda points that might improve its image in the outside world. This interpretation may be correct, but it overlooks the fact that meetings of any kind between North and South are sufficiently rare to deserve attention—and to justify speculation on what might have prompted the two sides to start talking.

The most prolonged, and promising, series of contacts to have taken place between Pyongyang and Seoul since the Korean armistice were held in 1972 and 1973 when a series of secret high level contacts between the two governments led to the establishment of a semi-official South-North Coordinating Committee (whose meetings ran for about a year before being unilaterally boycotted by the North). The next occasion when the two sides showed interest in talking to each other was in January this year, when President Park announced his Government's willingness to meet the North "at any time, and place and at any level," and North Korea responded with an elaborate set of proposals for the reduction of tensions and eventual reunification of the country. The Pyongyang blueprint, which was discussed at series of abortive meetings between the

two sides in February and March, proposed the suspension of propaganda broadcasts, by both sides, the termination of "hostile military movements" on either side of the Demilitarised Zone, and the convening in October of a "grand national congress" in Pyongyang at which decisions would, it was hoped, be taken on the North Korean plan for the formation of a confederation.

Although South Korea fielded a team to discuss the Northern proposals (and to put its own counter-proposals), its spokesmen have dismissed the North Korean move as "fake," peace offer, partly because it repeats old proposals that had already been dismissed by the South (the confederation idea, for example), and partly because of the obviously tactical nature of some of the other elements in the Northern package.

The proposal to suspend hostile military movements, at either side of the DMZ at the beginning of March seemed to be quite clearly designed to put a spanner in the works of "Operation Team Spirit," a joint U.S.-South Korean military exercise which was due to start that month (and which, in fact, took place, despite Northern protests). The suspension of propaganda broadcasts proposed by Pyongyang, referred to by Government spokesmen as

CONTINUED ON NEXT PAGE

مكتبة الشارقة

The economy

A change of direction

SOUTH KOREA may not quite deserve to be ranked as the most remarkable economic success story of the 1970s—that distinction probably should go to Taiwan which has achieved almost as much growth with a good deal less inflation during the difficult years since the 1973 oil crisis. But South Korea certainly outclasses virtually every other country in the world because of its sustained record of high economic growth and spectacularly increasing exports.

Korea's GNP was worth just over \$26bn in 1961, the year when Major-General (now President) Park Chung-hee seized power in Seoul in a bloodless military coup. At the end of this year GNP should be worth \$56bn. Exports were \$50bn in 1961 but hit \$12.7bn in 1978 and are scheduled to reach \$15.5bn in 1979. Per capita GNP, which was a mere \$82 when General Park marched into Seoul, will be \$1,500 by the end of this year, putting Korea just ahead of the rest of the poorer countries in the "rich man's club" of the OECD.

The simplest and best explanation for Korea's economic achievement is that growth was, and is, a matter of survival. For the past 25 years South Korea has been "racing" its neighbour North Korea to establish a strong economic and political system, with the alternative to failure the probability of eventual unification of the Korean peninsula on Pyongyang's terms. The race today looks substantially won—the South Korean economy would appear to be between four and five times as large as that of the North in absolute terms, while individual Koreans are probably a few hundred dollars per head better off than their northern counterparts. That does not mean that the South can afford to call a

halt; with the labour force growing at over three per cent per year South Korea will need to continue to "deliver" a high growth rate for many years just to provide jobs and opportunities for those who will need them. What does appear to be true is that after a decade of rapid conversion from an agriculture-based to a light industry-based economy South Korea has now reached a turning point in its economic development.

Superficially, all that might appear to be implied by this is that South Korea is adjusting to a slightly less hectic rate of growth after three years of ultra-rapid expansion. GNP growth averaged a real annual rate of 12.4 per cent during the three years up to the end of 1978, almost certainly the highest rate for the period achieved by any country in the world of comparable size (although Taiwan just edged out S. Korea in the economic growth stakes for 1978 alone). The Fourth Five Year Plan, which runs from 1977 to 1981, calls for an average growth rate of 9.2 per cent throughout the plan period (actually it envisaged a 10 per cent growth in 1977 followed by 9 per cent in each of the following four years).

In relation to the Government blueprint S. Korea had thus reached a point by the end of 1978 where it could well afford to cut back its growth rate to more "moderate" levels. The current year's growth target is 9.5 per cent and will be achieved (or possibly over-achieved), not by stimulating the economy, but by fairly severe cuts in

deflationary policies including the imposition of a tight money policy (in force since the second half of 1978) and a balanced budget.

The immediate cause of this rather worrying bout of inflation is thought to have been the massive increase in money supply which occurred in 1977 when Korea's unexpected success in winning Middle East construction contracts brought a flood of foreign exchange into the country. The money supply rose by 40 per cent in 1977 and was still increasing at an annual rate of 25 per cent last year (or 34.5 per cent in the case of M2).

This occurred despite a series of Government curbs, including a freeze on the repatriation of roughly 80 per cent of foreign exchange earned by construction companies, and a deliberately "engineered" deflation of the current account of the balance of payments.

The Government hopes to hold this year's increase in consumer prices to between 10 and 12 per cent and to keep the rate of increase in money supply down to a "steady" 25 per cent for both M1 and M2. It

has powers to place direct restraints on the ex-factory price of 96 key items produced by major local manufacturers, but was obliged to allow many of these to be adjusted upwards during the first two months of 1978 in order to "catch up" with runaway increase in retail prices that occurred in late 1977.

The aim is to keep the prices of such items steady at their new levels during most of the remainder of 1978 but this could turn out harder to achieve than the Government appears to believe. Higher prices for imported crude oil (which supplies 55 per cent of energy needs) still have to be reflected in the general price structure and are expected to add at least 2 per cent to the wholesale price index during the remainder of the year. Another problem that could prove harder to handle than the Government seems to expect involves the stabilisation of Korea's rapidly rising farm prices.

The Economic Planning Board says the Government has deliberately kept farm prices high in the past few years (in order to prevent too rapid a movement of the rural population into the cities). It also admits that a policy of going all-out for self-sufficiency in rice (now successfully achieved) has tended to produce shortages of other types of food including meat and vegetables.

Prices of some vegetables rocketed by as much as 30 per

cent during 1978, giving the public what the Government claims was an exaggerated impression of the overall inflationary problem. To deal with the food price problem the Government plans gradually to phase out its policy of preferential treatment for farmers, but it acknowledges that this may take time.

A third major symptom of overheating has been a sharp change in conditions on the labour market. Korea regarded itself as a country with a chronic excess of labour until two or three years ago and planning officials today continue to talk of the need to maximise GNP growth rates in order to absorb a continuing increase in the labour force. In the short term, however, there seems to be no question that Korean employers face a seller's market for labour.

Wages have been going up by around 25 per cent per year for the past three years, with particularly sharp increases in rates for skilled or managerial workers. The Government has been encouraging small companies to increase the wages of their lowest paid workers so as to avoid a (politically dangerous) increase in differentials between high and low paid sectors of the community. It is also, as a matter of urgency, taking steps to increase enrolment of students in higher education, so as to increase skilled manpower supplies.

Labour shortages in some

areas, however, are clearly not going to disappear overnight, even though Korea still has what most observers would regard as a large reservoir of workers in its overpopulated agricultural sector (38 per cent of the total labour force at the last count).

if the Government manages to solve the overheating problems—and there is no reason, given time, to doubt that the problems will be solved—the prospects for the Korean economy will become very much a matter of what happens in the outside world. Growth could be stunted during the next five years or so by a drastic increase in the number of import barriers erected in Europe, Japan and the U.S., or just conceivably by global shortages of the imported fuels and raw materials on which the economy is dependent.

The Government's recipe for avoiding these dangers is to bring about a shift in the structure of industry from lighter and more labour-intensive sectors into capital-intensive or skill-intensive sectors. By doing this it hopes to diversify Korea's exports out of the areas (such as textiles and electronics) in which protectionism is a major problem. The shift towards high technology industries would also increase the amount of value-added in Korea's manufactured exports and thus in the long run make the economy less dependent on imported raw materials and

fuels.

The Economic Planning Board, which masterminded the first phase of the country's industrial development, claims to be confident that the economy can generate enough savings to finance investment in heavy and advanced industries and that Korean workers and managers will be able to rise to the challenge of turning out computers instead of black and white TV sets and textiles. What it appears to feel marginally less certain about is its own role in piloting the country through to its next phase of development.

Supervised

Hitherto Korea has had one of the "Free World's" most tightly supervised economies, with the Government initiating almost every major investment by the private sector and wielding enough power to ensure that companies which make such investments also make a profit. The EPB expects to have to abandon this type of planning in the next phase of the country's development in favour of a more general approach based on resource allocation and the setting of broad targets for the development of major sectors. It will have to relax its grip on the planning process for the very simple reason that Korea's economy will be far too complex by the early eighties to respond effectively to centralised control by a handful of

bureaucrats.

The EPB's general air of confidence could mask a few doubts about the future. Not everyone agrees that Korea will make the transition to high technology industries as easily and rapidly as it switched from an agriculture-based to a light industry-based economy between 1965 and 1975. "The Koreans think they can start turning out turbo-generators in six years. Our experts think it might take 25 years" is how a diplomat at the Seoul Embassy of one of Korea's major Western trading partners expressed these doubts recently. There are also a variety of views on the seriousness of the protectionist threat to Korea's exports, which constitute a vital 35 per cent of GNP.

Korea does not pretend to be unconcerned about protectionism. But the planners who opted for high growth and rapidly growing exports at the risk of becoming over-dependent on world trade could still turn out to have had sounder instincts than advocates of a more cautious strategy. Other countries besides Korea have been making a dash for growth in the past few years on the assumption (which could well prove to be correct) that export-led expansion policies will prove harder to pursue in the eighties than in the seventies. Whatever happens, Korea is unlikely to have any reason to regret that it joined the race.

Charles Smith

Samsung provides fertile soil for the development of technologically advanced industry.

Some maintain that the great technological advances of the 20th century have reduced the dimensions of space and time. It's a small world, they say.

At Samsung, we offer the best of both worlds: technological capability and room for development.

As the oldest and one of the largest business groups in Korea, we've had the time to mature. More than 40 years of continuous expansion have provided us with the knowledge and experience necessary to work side by side with some of the best names in Western and Japanese industry.

Our ventures have taken us into everything from dolls to industrial plants. Samsung is currently active in the fields of precision industries, electronic equipment and appliances, heavy industry, constructions, petrochemical products and processes,

shipbuilding, and many others.

Modern management methods, the general economic climate of Korea, and our superior technological know-how form the fertile soil in which new ideas and new enterprise take root.

Contact Samsung — The Grass Is Greener!

SAMSUNG GROUP

Represented by Samsung Co., Ltd.

C.P.O. Box 1144 Seoul, Korea

Telex: STARS K2367/K2368/K23302

Cable Address: STARS SEOUL

LONDON Tel: (01) 631-6961/5 Tlx: 264606 STARS LG
FRANKFURT Tel: (0611) 740841/4 Tlx: 416479 SMC F
PARIS Tel: 538-6636, 6892 Tlx: STAR PAR 250730 F
AMSTERDAM Tel: 020-480136 Tlx: 15471 AMST
STOCKHOLM Tel: 08/21 81 10 Tlx: 12634 SAMSUNG S
MILANO Tel: (02) 800. 106, (02) 803. 525 Tlx: LONDON
BRANCH (PLS REPLY TO MILANO BR.)
DUESSELDORF Tel: (0211) 320014 Tlx: 9586392 SMD D

Differences

CONTINUED FROM PREVIOUS PAGE

remained left out of account a South Korean liberation station which apparently operates from just north of the military demarcation line, though purported to be located in the south.

A broader interpretation of the motives for the northern peace move which is circulating in Seoul suggests that various internal events (and one major development) might have prompted Pyongyang to start talking. According to this theory North Korea could be seeking to forestall pressure from China for the normalisation of North-South relations, assuming, as most people do, that China was urged to use its good offices in this direction when Vice Premier Deng Xiaoping made his recent trip to Washington.

Another North Korean objective could be to reassure the American public of its peaceful intentions towards South Korea at a time when the future of President Carter's plan for the withdrawal of U.S. troops from the South seems very much in the balance. Finally, and most intriguingly, there is speculation that the North might have been saying "second" thoughts about its traditional policy of relying on the maintenance of decisive military superiority over the South to bring about ultimate reunification.

The point being made here is not that North Korea does not wish to maintain military superiority, but that it may be reaching a point in its economic development where such a policy is no longer viable. North Korea (according to South Korean intelligence sources, which may not necessarily be correct) spends between 20 and 25 per cent of its GNP on defence, whereas the South claims to spend around 6 per cent. However, the South's GNP has been growing considerably faster than that of the North and is now possibly five times as large (about \$48bn in 1978 compared with the (very roughly) estimated northern figure of \$8bn-\$9bn). This would appear to mean that the absolute level of defence expenditure (as opposed to the ratio of defence to GNP) may now be roughly the same in both halves of Korea, with the South tending to catch up on (and overtake) Northern defence spending.

Southern analysts claim that the cumulative total of North Korean defence spending since the end of the Korean war is between two and two-and-a-half times that of the South. The North also has more men under arms, even though its population (estimated at 17m) is barely half that of South Korea. The North may continue to have a larger army for the foreseeable future, but Northern firepower, according to southern analysts, could be overtaken by that of the South by the mid-1980s if present trends continue. This will remain true even if American intelligence is correct in its recent reassessment of Northern armed strength (according to which the North may be about 35 per cent stronger than was previously believed).

attractive. One would be to launch an early attack on South Korea, taking advantage of the North's present military superiority. If such an attack were launched it appears that North Korean forces might well be able to occupy Seoul, which lies only 35 miles from the military demarcation line, but there would be a danger of (possibly nuclear) retaliation from U.S. forces in or near Korea, which could well be enough to make the North hold its hand.

A second policy option would be to switch to a full-blown "peace strategy" in other words to make a real attempt to reduce tension in Korea and promote normalisation of contacts between the two halves of the country. The third alternative open to North Korea would seem to be change its economic policy: in other words Pyongyang might start looking to the West, as China is doing, for loans and other forms of assistance which would enable it to modernise and expand its economy.

Recent speeches by North Korean leaders, including President Kim Il Sung's New Year address, have indicated a growing concern with economics and with the expansion foreign trade (not just with communist and Third World countries, but with all countries). However, there is no real indication that Pyongyang is planning to embark on an open door economic policy similar to that adopted by China. One reason why this would be difficult is that the North is already heavily in debt to western creditors (with more than \$12bn owed to Europe and Japan since the end of 1978) and is thus in no position to ask for fresh assistance.

If North Korea is not in a position to "do a China" in terms of its economic policy, and if it lacks the audacity to pursue the opposite extreme of launching a surprise attack on Seoul, diplomacy would seem to be the main area in which scope exists for new policy initiatives. The North's biggest diplomatic asset at present would appear to be the fact that it is on reasonably friendly terms with both China and the Soviet Union and is thus in a position to be "courted" not only by the Chinese and the Russians, but by any other power which hopes to prevent the emergence of a strong Moscow-Pyongyang axis.

One nation which would certainly not wish to see North Korea aligning itself firmly with the Soviet Union is Japan, to whom Russia is a large and alarming neighbour, with an uncomfortable tendency to send warships and fighter aircraft into areas bordering on Japanese sea and air space. The U.S. also has good reason to dislike the prospect of a Pyongyang-Moscow alliance, since one of the first benefits likely to accrue to the Russians from this would be the acquisition of a naval base in a north Korean warm water port. The Russian card may be the strongest one that Pyongyang holds at present, but it may still not be strong enough to give North Korea the upper hand in its battle to gain power and influence versus the South.

C.S.



THE GRASS IS GREENER AT SAMSUNG.

SOUTH KOREA IV

U.S. relations

Tensions have eased



SPEED, SKILL, ENTHUSIASM, FLAIR — TRY A TOUCH OF KOREAN MAGIC

Behind the Korean dancer's effortless art are countless hours of practice. For her, nothing short of perfection will do — it's the Korean way. In the banking and financial sphere, Korea Exchange Bank displays the very same qualities and ambitions, as we emulate the dancer in our quick responses and determination to please our public.

We've already proved ourselves as a vital component in

Korea's impressive economic performance, and we stand ready to serve you through our integrated global network of offices.

Wherever you are, Korea Exchange Bank is close at hand, with information and prompt tailor-made services designed for your needs. Our comprehensive range of skills and services are all you would expect from a major international bank, but, in addition, we supply that special touch of Korean magic.

KOREA EXCHANGE BANK

Head Office: 10 Kwanchul-Dong, Chongro-Ku, Seoul, Korea. TELEX NO.: K2404, K2406, K2727, K2754 C.P.O. Box 224 Seoul Cable Address: KOEXBANK SEOUL
Branches: New York, Los Angeles, Chicago, London, Paris, Frankfurt, Tokyo, Osaka, Hong Kong, Kowloon, Singapore, Bahrain
Representative Offices: Houston, Seattle, Toronto, Panama, Caracas, Sao Paulo, Zurich, Brussels, Milan, Vienna, Fukuoka, Bangkok, Jakarta, Tehran, Nairobi, Sydney
Subsidiaries: California Korea Bank, Los Angeles • Korea Associated Finance Ltd., Hong Kong • Korea-Europe Associated Finance Company S.A., Brussels • Carro Far East Bank, S.A.E.

THE COMMERCIAL BANK OF KOREA, LTD

HEAD OFFICE: P.O. BOX CENTRAL 126, SEOUL, KOREA

TOTAL ASSETS
US\$5,644,291,480

TOTAL SHAREHOLDERS EQUITY
US\$120,057,126

as at end of December 1978



The largest commercial bank in Korea offers through its International Department, Seoul, and its overseas branches, comprehensive banking services. Our highly trained staff is available to advise you on all aspects of international banking business. Now established in London at

Portland House
73/73 Basinghall Street
London EC2V 5DX

General Manager, J. H. Ahn
Telephone: 01-606 3871. Telex: 889369
Agencies in New York and Los Angeles
Representative Offices
Tokyo, Hong Kong and Singapore

REINSURANCE WORLDWIDE

● WE are a leading reinsurer in Asia handling over U.S. \$ 200 m. premium a year.

● WE are dealing with over 650 companies and brokers in 71 countries.

● WE can reinsure you up to one million U.S. dollars per risk in any territory on any class of business.

SEOUL

MAIL: C.P.O. Box 1438

TELEX: K 23182 + K 24241

CABLE: KOREINS SEOUL

PHONE: 260-3011/4011

OVERSEAS

LONDON: 626-6889/6880

TOKYO: 253-3171

SINGAPORE: 95341-3

KUALA LUMPUR: 428111

KOREAN REINSURANCE COMPANY

대한재보험

"I THINK 1977-78 was as difficult a period between treaty allies as could be imagined." The speaker was Mr. Richard Holbrooke, U.S. Assistant Secretary of State for East Asian and Pacific Affairs, giving his estimation (during a visit to Seoul on March 17) of the state of U.S.-Korean relations. Mr. Holbrooke went on: "We had a culmination of stresses and crises which could have torn the treaty alliance apart... I refer to the so-called 'Koreagate' problem, to the congressional scandals, to grave misunderstandings and concerns—which we felt were exaggerated but nonetheless were real—over the troop withdrawal policy and to the question of human beings' individual freedom and dignity."

The latter part of 1978 showed a significant improvement in these areas... we view 1979 as a year for strengthening the relationship. "We assess the U.S.-Korean relationship as having been on an ascending curve over the last few months... now things that do go up can go down and I don't want to leave the impression that I am predicting a smooth course or a trouble-free future because that clearly is very difficult in a situation that is as fundamentally complex as this one. But basically things have gotten much better and we believe we have weathered the crisis."

No one could suggest the Assistant Secretary of State was glossing over the extreme tensions that had marked the relationship between Washington and Seoul during the past 2½ years. The tensions were at times extreme, reflecting the very high degree of dependence that South Korea has had on the U.S. for the past 25 years and the sudden realization—on both sides—that the relationship had changed fundamentally.

Recognition that the tensions have now eased and that the new relationship is being accepted will come later this year with the visit to Seoul by U.S. President Jimmy Carter, following his stay in Japan to take part in the developed nations economic summit meeting in Tokyo in June. Although the visit will be brief, Mr. Carter and South Korean President Park Chung Hee have a great deal to discuss. The policy adopted by the U.S. Administration as soon as Mr. Carter came to office of the gradual withdrawal of the 30,000 U.S. ground troops in Korea by the early 1980s has caused intense and continuing anxiety in Korea. There is a firmly held belief among vir-

tually all Koreans that it is only the presence of U.S. ground forces that has prevented North Korea from launching an invasion attempt during the past 10 years.

The bulk of the U.S. forces are deployed in the 25 miles of hilly country that separate Seoul from the demilitarised zone (DMZ) which forms the border between north and south. Because of the nature of the terrain along the DMZ, any invading force would have to pass through the area garrisoned by the Americans, thereby immediately involving the U.S. in military operations alongside the South Koreans. Despite frequent and public assurances by the U.S. in the past few years that there will be no reduction in U.S. air or naval forces in the Korean region, and despite a US\$ 500m programme to beef up the military hardware of the South Koreans, Seoul remains unconvinced.

Hope

Early in March, Prime Minister Choi Kyu Hah told the Americans that "it is our sincere hope that (you) will deal very gently with the question of future troop withdrawal in view of the rapidly changing international situation and the additional military build up in North Korea so as not to disrupt the military balance on the Korean peninsula."

The Koreans were certainly not reassured when a recent assessment by the U.S. of intelligence data showed that the North Korean army had about 170,000 more men and considerably more tanks than had previously been thought. It gave the U.S. pause as well, and the troop withdrawal programme has been "held in abeyance" pending further analysis of the reports.

To some observers this seems the perfect excuse that Mr. Carter needs to drop the withdrawal policy, which has become increasingly unpopular in the U.S. Congress and has never been accepted by the Koreans.

It seems likely that any announcement on the future of the policy will be delayed until Mr. Carter speaks with President Park and few doubt that the "discovery" of the extra northern divisions will see Mr. Carter's unpopular campaign promise scrapped.

That alone should ensure that U.S.-Korean relations remain on an "ascending curve." It may also be the goodwill gesture Mr. Carter needs to counteract

criticism the U.S. President is bound to make of South Korea's human rights record. Just how Mr. Carter will raise the issue is uncertain, but it is accepted by both Korean and U.S. officials that the severe restrictions that are applied to freedom of speech and political activity under the Yushin Constitution and emergency decrees drawn up by President Park will be raised by Mr. Carter.

Very few contacts between U.S. and Korean officials take place without human rights issues being mentioned in some form. The Koreans feel the Americans are ill-informed about the concept of civil rights in a society such as Korea, and that what may succeed as a formal change in the U.S. is not applicable to South Korea. However, they realise they cannot simply ignore such a fundamental part of Mr. Carter's foreign policy.

Seoul took a major step at the end of last year to ease this irritant in its relations with Washington by releasing from detention more than 1,000 political prisoners, including former Presidential candidate Kim Dae Jung, who has become a symbol among U.S. liberals of the Korean dissident movement.

Although Mr. Kim has been closely watched since his release he has been able to criticise the Park Government without incurring anything worse than warnings that he is breaching his parole.

Mr. Kim's release was seen in Korea as being the result of continuing U.S. pressure and directed at U.S. opinion which was turning away from Korea in the aftermath of normalisation of U.S. relations with Peking. Mr. Kim himself has played on this and on the coming visit of Mr. Carter to keep up his criticism of Mr. Park, and has asked for the opportunity to meet Mr. Carter when he visits Seoul—a request that is unlikely to be granted.

Whatever Mr. Carter's comments on human rights, they will only represent a continuation of existing pressures, so they are certain to be accepted with good grace.

One area Mr. Carter will not have to worry about is the so-called "Koreagate" scandal in which rice-dealer Park Tong Sun and former Korean ambassador to Washington Kim Dong Jo were implicated in allegations of bribery of U.S. senators and representatives. Although extensive investigations in the U.S. last year finally established that some illicit payments had been made—and legal machinery is still moving on some cases—the

issue no longer raises the heat it did in 1975 and 1977.

The demand by the U.S. Congress that Mr. Park and Mr. Kim appear before its committees in Washington, brought relations between the U.S. and Korea to a very low level. Seoul initially resisted persistent U.S. pressure before allowing Mr. Park to testify, with personal immunity from prosecution. Mr. Kim Dong Jo never made the trip to Washington, and a retaliation the Congress voted \$56m of food aid.

Mr. Carter may face a more testing time when the subject turns to economic relations. In this area, as much as in military affairs, there has been a fundamental change in the relationship.

The rapid economic growth of South Korea in the 1970s has changed the ties with the U.S. from those of dependence to those of balance—although not to the extent that U.S. trade officials would like, as Korea last year recorded a trade surplus with the U.S. of \$1.1bn.

The largest segment of this trade is in textiles and garments, areas which in the U.S. are now subject to intense protectionist lobbying. Although the two countries have a three-year textile trade agreement giving quotas and an amount of growth to the Korean industry, there are continuing efforts at tightening controls which the U.S. industry claims are being bypassed.

The Koreans are trying to head off some of this trade friction by purchasing, with accompanying fanfare, considerable quantities of American commodities. Later this year Seoul is sending a big buying mission to the U.S. to sign up suppliers of goods ranging from biscuits to machinery. Whether these deals would have been made anyway is a matter of debate.

However, the U.S. does see new openings for its products in the medium to heavy industrial sector of Korea. Notable among these are aircraft, nuclear power plant and machine tools.

If Mr. Carter's visit to Seoul can reassure the Koreans, there is no wavering in the U.S. military commitment to South Korea, while bringing home the need for the U.S. to maintain a reasonable balance in its trading. U.S.-Korean relations will, indeed, maintain an "ascending curve" that Seoul hopes to see continue.

Ron Richards

Links with Japan

Trade friction increases

SOUTH KOREA and Japan are close partners in such ventures as the steel industry, but bitter rivals in another. Japan's stake in the fast growing Korean economy, through trade and direct investment, is far larger than that of any other nation and Korea is the second largest market for Japanese exports (absorbing goods to the value of 80 per cent of Japan's exports to the whole of the EEC). Add to this the fact that Korea has borrowed from Japan many of the successful development policies pursued over the past decade, and one can see that the two countries have done a good deal to contribute to each other's progress.

The rivalry is a mirror image of the partnership. Korea aspires to displace Japan from its position as undisputed world market leader in industries such as shipbuilding and consumer electronics—or at least to challenge that position with its own cheaper products. There is also a feeling that by beating Japan at its own game, if such a thing becomes possible, Korea will be getting its own back for several centuries of history in which the Japanese have very definitely had the upper hand.

Korea was a Japanese colony for 35 years up to the end of World War II and has not forgotten the severity with which the colonial rulers tried to impose on a reluctant local population their language and culture. Two hundred years before that the Koreans spent years fighting off a series of Japanese invasions which devastated much of their country.

The post-war relationship between Japan and South Korea dates, for all practical purposes, from 1965, when President Park Chung Hee successfully tackled the issue normalising diplomatic relations with Tokyo. (His predecessors had ducked the issue because of a strong popular antipathy against Japan.) From the time of normalisation onwards Japanese loans and investment began to flow into Korea in rapidly increasing quantities, and Korea quickly became dependent on Japanese supplies of semi-processed industrial materials to feed its textile and other fast growing light industries.

Japan's investments in Korea take the form of joint venture participation in about 340 separate enterprises, ranging from small-scale assembly operations to major petrochemical or heavy industrial

complexes. The Japanese investment in such ventures represents about 80 per cent of the total value of foreign investment in Korean industry and can be classified (in chronological terms) into three separate phases.

Objectives

Japanese companies first invested in Korea in the late 1960s and early 1970s with the straightforward objective of making use of cheap Korean labour to assemble imported components. From the early 1970s onwards Korea acquired the added attraction of being a manufacturing base from which Japanese companies could export to the United States without encountering the barriers which were being erected against goods directly shipped from Japan.

Today the introduction of direct barriers against Korean imports in the U.S. and Europe has undermined the second of these advantages, while Korean labour is a good deal less cheap than it was. There is still scope, however, for technology-based Japanese investments (i.e. projects where the Japanese partner acquires a stake in a Korean joint venture in return for providing know-how. It also appears that Japanese companies with Korean joint ventures in consumer electronics or other light industry sectors may have started using their Korean affiliates to fill part of the Japanese quotas for such goods in the U.S. or Europe (thereby earning "Japanese prices" for goods produced by Korean labour).

Because of Japan's investment presence and because geographical proximity gives it a strong competitive advantage in terms of freight rates and delivery times, Japanese goods have outpaced competing western products in the Korean market for the past decade. Japan supplied 44.5 per cent of Korea's imports in 1967 and still held a 40 per cent share in 1978, despite a conscious effort by Korea to diversify imports by broad-and-butter of Japan's sales to Korea consists of the bulk shipments of semi-processed industrial raw materials for the textile industry and of components for the electronics and other light manufacturing industries.

A significant portion of the total appears to be bought in under contract from Japanese-Korean joint ventures (some of which are obliged by their terms of operation to concentrate procurement in Japan). The Korean Government now strongly discourages local participants in Japanese joint ventures from committing themselves to Japanese procurement. Despite this, one of the major synthetic fibre joint ventures, whose terms of operation do not oblige it to buy from Japan, still relies on Japanese raw materials for two-thirds of its needs, with the remaining one-third coming from West Germany.

The Japanese investment presence has also produced the converse result of stimulating Korean exports to Japan. Approximately one-third of Korea's exports to Japan in 1978 consisted of textiles, whose value was far ahead of any other country's textile sales in the Japanese market. The bulk of these shipments appears to have come from Japanese-Korean joint ventures established in the early 1970s at a time when high labour costs were undermining the ability of the Japanese textile industry to supply on its own domestic market.

Korean joint ventures (some of which are obliged by their terms of operation to concentrate procurement in Japan). The Korean Government now strongly discourages local participants in Japanese joint ventures from committing themselves to Japanese procurement. Despite this, one of the major synthetic fibre joint ventures, whose terms of operation do not oblige it to buy from Japan, still relies on Japanese raw materials for two-thirds of its needs, with the remaining one-third coming from West Germany.

The Japanese investment presence has also produced the converse result of stimulating Korean exports to Japan. Approximately one-third of Korea's exports to Japan in 1978 consisted of textiles, whose value was far ahead of any other country's textile sales in the Japanese market. The bulk of these shipments appears to have come from Japanese-Korean joint ventures established in the early 1970s at a time when high labour costs were undermining the ability of the Japanese textile industry to supply on its own domestic market.

Korean officials are honest enough to admit that their country owes a good deal of its recent economic success (particularly during the early stages of industrialisation) to Japanese investments and to regular supplies of cheap Japanese materials. This does not alter the fact there is profound satisfaction about some aspects of the economic relationship with Japan. Frictions centre around the imbalance on bilateral trade, which has grown continuously and rapidly since 1975 and which, last year, was almost double Korea's global trading deficit (\$3.35bn compared with an overall visible trade deficit of \$1.8bn).

Japan's exports to Korea in 1978 grew by 52 per cent despite (or perhaps even because of) the fact that the yen was appreciating rapidly against the dollar during much of the year. There is evidence that Korean importers rushed to buy Japanese goods during the first half of 1978 in order to avoid having to pay the higher prices that were expected to result from revaluation. While Japan was achieving a spectacular increase in its sales to Korea, Korean exports to Japan rose by a much more modest 22 per cent (that is by a slower rate

than the overall percentage increase in Korean exports during the same period).

They might well have grown faster. In the view of some Koreans, if Japan had not maintained import quotas (or other types of restriction) on a variety of major export items including five varieties of fresh and dried fish; edible seaweed (an important commodity in the Japanese market); leather footwear; baseball gloves; and processed silk, Japan does not maintain barriers against Korean textiles and electronic products of the kind which are now becoming general in Europe and the U.S. However, Korean manufacturers of many types of light industrial goods seem to have found the Japanese market fairly hard to penetrate (with a few notable exceptions such as the tyre industry).

However much South Korea might wish to achieve a better balance in its trading relationship with Japan, there is probably nothing it can do that would change the relationship overnight. The changes of Korea persuading Japan to lift its restrictions on fish imports appear slim given the strength of the Japanese fishing lobby and the relative lack of pressure to bear on Japan from outside its own economic interests. What Korea has been doing is to restrict Japanese economic activity through various forms of "administrative guidance."

Korean importers of textile machinery have been encouraged during the past few years to make their purchases in Europe rather than Japan. At the same time it would appear that Korean companies seeking partners for new joint venture projects have been told to look elsewhere than Japan. This could be one reason why Japan accounts for only 38 per cent of new foreign investment in Korea during 1978 (in contrast with its 60 per cent share of cumulative foreign investments up to the end of 1977).

A series of other administrative devices which are ostensibly directed at Japan nevertheless seem to have served in practice to hinder the expansion of Japanese business activity in Korea. One example is the Korea Trade Transference Law, which obliges foreign trade companies to seek permission from the Korean

CONTINUED ON NEXT PAGE

SOUTH KOREA V

Trading companies

مكتبة الشرق

Group system wins more exports

MANY COUNTRIES, including Mexico, Singapore, and reportedly even France, have copied or considered trying to copy the hitherto unique institution of the Japanese general trading company (*sogo shosha* in Japanese). The only country which seems to have succeeded is South Korea.

South Korea had 13 officially-registered GTCs in 1978 and has 12 today (one dropped out at the beginning of the year after failing to meet the conditions for GTC designation). The group of companies bearing this privileged and exclusive label sold 32 per cent of Korea's exports last year and probably will sell more than 40 per cent in 1979.

This is enough to prove that the GTCs represent a major element in the export-oriented South Korean economy. Whether they are also a helpful and positive element so far as the rest of the economy is concerned is still partly open to question.

South Korea's Ministry of Commerce and Industry, which is responsible for seeing that the country meets its export targets, came up with the idea of creating GTCs in 1975, after concluding that the far-flung branch networks of Japan's

sogo shosha had a lot to do with the global success of Japanese exports. The requirement for GTC status in the first year was that exports should exceed \$50m and only one company qualified (Samsung Company, the long-established trading arm of the Samsung group). In subsequent years requirements were stepped up considerably as more and more of Korea's leading business groups joined the queue to win GTC status.

The 1979 qualifications include exports equivalent to at least 2 per cent of the national export figure for 1978 (this works out at about \$254m per company); sales of at least five different items to reach or exceed \$1m-worth per item; an international branch network of at least 20 offices; and public quotation of the company's shares on the Seoul Stock Exchange.

The 13 GTCs registered by the government this year include two companies which did not, in fact, meet all of these qualifications. One, the semi-official Koryo Trading Company, was given special treatment because it handles small orders for small and medium-sized business enterprises and therefore could not be expected to equal the turnover of competi-

tors dealing in bulk orders. A second company, Hanil Synthetic Fibre, scraped through because it was able to convince the authorities that its indirect exports of artificial fibres (through other South Korean companies) should be added to the figures for its direct exports recorded in the customs statistics.

In return for fulfilling the qualifications set by the government the GTCs receive various privileges. They can become members of any or all of the export associations organised within major South Korean industries (which means they can acquire a larger volume of export intelligence at a lower cost than non-GTCs are able to do). They can select their own "main" banks (unlike ordinary South Korean companies which have their main banks designated for them by the Bank of Korea).

Their overseas branches or subsidiaries may raise foreign currency loans without reference to the strict guidelines which apply to offshore borrowing by the rest of South Korean industry. And they pay lower fees than ordinary companies for the processing of export contracts required by South Korean law.

The list of privileges and immunities granted to GTCs does not provide the full explanation of why the system works and why Korean general trading companies can show a profit, despite the enormous overheads involved in running a big overseas branch network staffed by highly paid executives. All the GTCs (with the exception of Korea Trading Corporation) also happen to be members of large, diversified industrial groupings. They start out therefore with the advantage of having a "tied" clientele for their overseas marketing activities.

Daewoo, the number one GTC in 1978, belongs to the same family of companies as a top electronics manufacturer, a leading heavy industry enterprise and one of the biggest textile concerns. A similar set of relationships is enjoyed by Samsung Company, Hyundai Corporation and the rest of the 12 GTCs.

On average, South Korean GTCs depend on group members for about 50 per cent of their export turnover while, picking up the rest of their business from smaller, unattached clients. GTCs are encouraged by the Government to acquire subsidiaries and, therefore, are

tending to draw within their orbit more and more small and medium-sized concerns which find themselves in need of powerful friends. In a majority of cases GTCs also perform an overall planning and co-ordination function for the groups of which they are members.

The GTC is, therefore, in a very real sense the "core" of the group to which it belongs and the designation of GTC can be said to confer "group status" on the whole family of companies to which the company concerned is related. The central role accorded to the GTC fits in naturally with the emphasis on exports which pervades South Korea's entire economy. It provides a contrast, however, with the situation in Japan where a *sogo shosha* may or may not play a central role in the group to which it is related.

The Ministry of Commerce and Industry, which administers the GTC system, says that the companies concerned enjoy one other important benefit. They are attracting the brightest graduates from top universities, in contrast with the situation of a few years ago when the toughest competition was for jobs in the government.

The drawback of the GTC system, as seen by the companies which have qualified, is that government guidelines are too ambitious and make it too hard to register profits (although all 13 GTCs did, in fact, report profits for the year 1978).

In the view of ordinary South Korean trading concerns which have not managed, or tried, to win GTC status, the system is open to more radical objections. They argue that the creation of GTCs has served merely to concentrate the business of selling Korean exports into fewer hands—not to increase the overall amount of business faster than it would have increased anyway. Concentration of ownership and control could be dangerous, according to the system's critics, although it may appear harmless while the economy, and exports, are growing fast and everyone is becoming rapidly better off.

The Ministry of Commerce and Industry admits that critics of over-concentration could have a point, but says the GTCs have created an "atmosphere" of export promotion

THE GENERAL TRADING COMPANIES

Company name and date of designation	Number of overseas branches	Exports in \$m	
		1977	1978
Samsung Company, May, 1975	32	390.1	483.4
Daewoo Industrial Company, May, 1975	34	361.8	705.8
Ssangyong Industrial Company, May, 1975	23	117.1	284.5
International Chemical Corporation, Nov. 1975	32	297.4	472.3
Hanil Synthetic Fibre Indust. Company, Dec. '78	20	127.0	188.2
Korea Trading Company, April, 1978	5	23.7	31.3
Hyosung Moolisan, August, 1978	24	152.8	337.8
Bando Trading Company, Nov., 1978	25	198.8	392.6
Sunkyoung, Nov., 1978	35	176.2	283.4
Sam Wha Company, Dec., 1976	21	167.1	260.6
Kumho Company, Dec., 1976	22	135.0	256.0
Hyundai Corporation, Feb., 1978	30	323.3	259.7
Yulsan Industrial Company, Feb., 1978	31	91.9	180.7
Total	307	2,562.6	4,033.3

Note: Yulsan Industrial Company did not apply for GTC designation in 1979.

GROUP INTERESTS

Samsung Company:	Textiles, garments, department store, sugar refining, hotels, electronics machinery, shipbuilding, rolling stock, defence, construction (22 companies)
Daewoo Industrial Company:	Heavy industry, construction, electronics, shipping, finance, insurance, leather, textiles (23 companies)
Ssangyong International Chemical Corporation:	Cement, electronics, chemicals, university (11 companies) Footwear, textiles, paper, electronics, construction, shipping, transport, securities (22 companies, approximately 200 subsidiaries)
Hanil Synthetic Fibre:	Synthetic fibres, wool spinning and weaving, petrochemicals (6 companies)
Koryo Trading Company:	100 per cent owned by Korea Traders Association, specialises in small orders
Hyosung Moolisan:	Tyres, leather products, tannery, nylon (8 companies)
Bando Trading Company:	Member of Lucky Group, electronics, chemicals, mining construction, petroleum refining, securities (12 companies)
Sunkyoung:	Textiles, electronics, machinery, rubber, tourism (12 companies)
Samwha Company:	Footwear, raw silk, silk fabric (25 companies)
Kumho Company:	Tyres, electronics, bus transport, bicycles (12 companies)
Hyundai Corporation:	Construction, automobiles, shipbuilding, heavy industry (17 companies)
Yulsan Industrial Company:	Shipping, aluminium, construction

which has helped the country as a whole.

The Ministry has one other specific concern—to see the GTCs increase their role in the handling of imports. The 13 GTCs handled only 4 per cent of the nation's total imports in 1978 (compared with 32 per cent of its exports) and seem to have faced difficulties in

taking over import business from state corporations (in the case of cotton) or from industry itself (in the case of many other industrial raw materials).

GTCs may well play a leading role in the new phase of overseas resource development which will have to accompany the further growth of South Korean industry. Meanwhile,

successful or otherwise, they are at least free from the worry of foreign competition. A non-South Korean trading company requires approval from the (private sector) Korean Traders' Association to open a full operating branch in Seoul. So far not a single approval has been granted.

C.S.

Friction

CONTINUED FROM PREVIOUS PAGE

Traders' Association before they may open full branches in Korea. The KTA has yet to issue a single approval and appears unlikely to do so, with the result that foreign trading companies are effectively banned from carrying out import or export transactions in their own right on Korean territory. (They may act as "offer agents" for Korean importers but may not buy or sell goods in their own names.)

The reason why the KTA has not permitted the opening of foreign trading company branches is understood to be that it believes the major Japanese trading companies (Mitsui and Mitsubishi, etc.)

would represent formidable competitors for Korea's fledgling general trading companies (GTCs). If given a free hand, Korea probably has much less reason to fear that western trading concerns might take over the handling of its imports and exports.

Restraint

South Korea's banking regulations also serve as a restraint on Japanese business activity, although less drastically so than in the case of trading company branch approvals. The Bank of Korea has allowed four Japanese banks to open full

branches in Seoul, which means that Japanese banks have been given numerically equal treatment with British and French banks, despite the overwhelming larger stake of Japan in the Korean economy. The Japanese authorities have restricted Korean banks to the opening of the same number of branches in Tokyo (which means that the Korean banking presence in Japan is much smaller than that of major western European countries).

Korea seems to be aware that its policy of import liberalisation, introduced last year, could work in favour of Japan and against the interests of less

competitive exporters from the West. To minimise the advantage given to Japan the Government appears to have made a point of selecting items in which European industry is strong (eg biscuits) for inclusion in the initial rounds of liberalisation. Ultimately Korea may have to open its market to products in which Japan enjoys a strong global competitive edge (for example cars). The hope is, however, that when that time comes Korean industry will itself have grown strong enough to hold its own against Japanese competition.

C.S.



is OK!

ICC CORPORATION

21st, 22nd & 23rd Floor, KUK DONG BUILDING,
60-13-KA, CHOONGMOO-RO, JOONG-KU, SEOUL,
CPO Box 747 SEOUL, KOREA Cable: ICCCO SEOUL
Telex: ICCCO K27251, K26548 Phone: 771-81

International trading is right up ICC's alley. If you have a venture in mind, come in and let's discuss your needs. ICC's specialists have the experience to deal with your ideas and proposals in a practical sense that will be lucrative to you.

ICC is eager to serve you. When associating with ICC, you will find your business success is just around the corner.

We are available to give you comprehensive information about our total program on both import and export.

We invite you to look over our literature and brochures.

You will see ICC is the choice firm for international transaction along with your business expansion.

OVERSEAS BRANCHES: New York, Los Angeles, Chicago, Toronto, Panama, Buenos Aires, Sydney, Osaka, Bangkok, Hong Kong, Manila, Jakarta, London, Paris, Düsseldorf, Göteborg, Cairo, Lagos, Tehran, Amman, Beirut, Kuwait, Dubai, Jeddah.

Banking

Competition and conformity

SOUTH KOREA'S banking is a curious mixture of competition and guided monopoly. On the one hand five nationwide commercial banks—all partly Government owned—vie with eight Government-owned specialised banks, ten private regional banks and about two dozen foreign banks for chronically-scarce funds. On the other hand, the Finance Ministry and its off-

shoot the Bank of Korea, exercise comprehensive control over both the commercial and specialised banks, leading to a high degree of uniformity in their behaviour. The Bank of Korea is involved in the operations of the commercial banks up to the level of appointing senior officials and even to issuing detailed instructions on the day-to-day functioning of the institutions.

The structure of South Korean banking gives a deceptive impression of diversity. At the top of this structure are the five commercial banks—the Commercial Bank of Korea, the Choheung Bank, Hanil Bank, Korea First Bank and the Bank of Seoul and Trust—which are all effectively state-run. The Government is the largest shareholder in all except Commercial Bank of Korea,

from which it transferred most of its equity stake to the Korean Traders Association in 1972.

All these banks have their head offices in Seoul and operate a network of nationwide branches. With similar historical backgrounds and with strong intervention by the government in their development, the five city banks have been brought to a close uniformity in their organisation. Each is about the same size in terms of capital, deposits and loans outstanding and the number of branch offices.

In addition, a strong uniformity prevails in the banks' management. Interest rates are agreed by the Bankers Association, in conformity with maximums set by the Bank of Korea, while dividend payments are also subject to government approval—and are almost uniform.

Even though the commercial banks seemingly compete with each other, in practice the high level of regulation imposed by the Bank of Korea has severely limited this competition.

Reserves

The city banks rely heavily on the rediscounting facilities of the Bank of Korea because of a chronic shortage of domestic savings in South Korea's banking system relative to the very heavy demand placed on the banks by industry for finance. The bank meets this demand for funds on highly-selective terms, giving priority to those areas (such as export industries) deemed to be nationally important rather than the most profitable.

The other contributing factor to this fund shortage is the high level of statutory reserves required by the Bank of Korea. Not only does the central bank have the power to set and alter the minimum ratios of reserves that the banks must maintain against their deposit liabilities,

but it may also set different ratios for different types of deposits.

It is perhaps not surprising that a private study of the composition of the lending portfolios of the city banks showed that not only were they almost identical in terms of industries supported, but that changes that had taken place in this breakdown in the past five years were almost the same for all five banks.

Complementary to the city banks in function, but competitive for funds are the 10 regional banks. These privately-owned institutions have been set up during the past 10 years to help finance the development needs of provincial areas.

Previously it had been found that the regional deposits with the commercial banks (and with the specialised banks) had been flowing away from the provinces to finance development projects in the major cities or government-promoted industrial areas. The regional banks have acted as a counter to this drain and accordingly their major customers are usually smaller local enterprises and utilities.

The much larger system of specialised banks—eight in all—are answerable directly to the Ministry of Finance. They were established progressively—starting with the Korea Development Bank in 1954—to provide the long-term or special-purpose funding necessary in the developing Korean economy.

Initially these specialised banks were operating in areas which the commercial banks had been unable to satisfy, and operated with government funds as part of their resources.

However, in recent years, the amounts borrowed from the Government have declined relatively, while other sources such as bank debentures, deposits and foreign borrowings have increased. As a result, the specialised banks have strengthened their ordinary banking business in competition with the commercial banks, and now capture a sizeable volume of ordinary deposits.

At least two of the specialised banks—Korea Development Bank and Korea Exchange Bank—compete directly with the city banks in the more profitable areas of their business, notably foreign exchange lending.

The remaining, and newest, section of the banking sector, are the branch offices of foreign banks operating in Seoul and to a limited extent in Pusan. At present there are 24 fully-operative foreign banks, while about 10 more have established representative offices, which is usually the preliminary step to seeking a full permit.

The foreign banks operate mainly in the foreign exchange loan market, with very little of their assets or liabilities in domestic currency. No more than 10 per cent of total deposits are held in Won, South Korea's unit of currency. The major source of funds is the overseas head offices of the banks. This accounts for about 60 per cent of operating funds, with the remainder coming in foreign exchange deposits from South Korean sources.

The foreign banks' total foreign exchange lending within South Korea in 1978 reached U.S.\$549m, more than double the level of the previous year. In contrast, foreign exchange loans by domestic banks was \$123m. However, the domestic deposit base of the local banks at the end of 1978 was Won 7,480bn more than 80 times larger than that of the foreign banks.

One of the main reasons for the concentration of foreign banks on foreign exchange lending—apart from its greater profitability—is the acute shortage of domestic currency they must overcome.

With such a limited deposit base, their only access to Won funds is by sale of securities in the market, or by availability of the swap facilities they have with the Bank of Korea for the conversion of foreign currency. As in many countries, the foreign banks have no access to rediscounting facilities with the central bank.

However, they are required to maintain a certain range of over-bought positions in foreign currencies, and any funds above the upper limit must be sold to the central bank or Korea Exchange Bank in return for Won. So they may increase their Won funds by building up foreign exchange holdings, but in the process eventually supply more lendable foreign exchange to the rival official banks.

Guidance

Even in their foreign exchange lending the foreign banks are strictly controlled. They are subject to the foreign exchange requirement programme established yearly by the government to regulate the use to which foreign funds are put. The programme channels foreign funds into areas which are deemed to have high priority in the development of the national economy.

Therefore all areas of retail banking in South Korea are subject to a very large degree of government direction or "administrative guidance." The degree to which this is entrenched is best illustrated by the "primary banking system" which has been set up to supervise corporate lending for the past two years.

The nominated purpose of the primary banking system is to improve the financial operations of major companies by exercising systematic control over all loans supplied to them. The target companies of the programme were put into two

categories: those with total bank borrowings of more than Won 5.0bn and those which were members of a business group which had total group borrowings of more than Won 10bn and which themselves had borrowed more than Won 100m.

Each year the Bank of Korea designates those companies which are subject to the primary banking system and a primary bank is nominated for each such company, plus a limited number of secondary banks. After this only a primary bank—or secondary bank of a company—can provide loans to that company. The target company is compelled to have one primary and perhaps six secondary banks—including foreign banks.

The primary bank must establish a ceiling on the working capital loans to a company, with this ceiling subject to Bank of Korea approval. In addition, the company must submit a written financial development programme to the primary bank every two years, which the bank must then oversee. The bank has the obligation to help a company improve its net worth by restraining dividends and approving any diversification moves or foreign borrowings.

No institution can provide loans of more than Won 500m to a target company without the approval of the primary bank. And, in the event that a company finds itself in financial difficulties, the primary bank will move in to devise a scheme to salvage the operation.

Because foreign banks as well as the domestic banks must participate in this system, the overall effect is to give vast discretionary powers to the Bank of Korea through the primary banks. And it is through financial "guidance" such as this that South Korea has been able consistently to achieve the trade and industrial development targets its planners have set year by year.

Ron Richardson

Korean expertise, we do it better.

With Korea's economy flourishing and its industry turning out a swelling stream of business-building projects, all you need is an entrance to the Korean market. KTA, the Korean Traders Association, is your key to trade contacts and contacts that have offers of business opportunities. To smooth your path to the US\$90 billion-a-year market, we have a special staff of consultants who know the ropes for anything you can name. Please write us. We get you in touch with any one of our 2,300 members (all exporters/importers in Korea) that is to accommodate your particular requirements. We can show you where to go for what.

Contact KTA and the door will open up. Your next step is over the threshold and on ahead to profitable trade with Korea.



KOREAN TRADERS ASSOCIATION WORLD TRADE CENTER KOREA

C.P.O. Box 1117, Seoul Cable: KOTRASO and WORLDTRADE SEOUL.
Telex: K24285 KOTRASO Telephone: 771-41

New York Branch
Korea Centre Building
480 Park Avenue-Room 850
New York, N.Y. 10022
U.S.A.
Tel.: (212) 421-8804/6
Tlx.: KNTANY 425572

Japan Branch
8th Fl., Dai 33 Mori Bldg.
6-21, 3-chome, Toranomon
Minato-ku, Tokyo, Japan
Tel.: 438-2756, 438-2761/5
Tlx.: KOTRASO J27484

Hong Kong Branch
Korea Centre Bldg.
119-120 Connaught Rd. C.
Hong Kong
Tel.: 5-432234-8
Tlx.: 74388 KOCEK HK

Düsseldorf Office
Emmerich-Luise Strasse 1
4 Düsseldorf 11
W. Germany
Tel.: (0211) 584006/7
Tlx.: 584754 KTAD

SOUTH KOREA'S hopes of sustaining a 10 per cent annual growth rate up to the early 1980s depend on the solution of two external problems. One is to find enough markets for the goods that her industry will produce. The second is to ensure stable supplies of natural resources.

The South Korean planning authorities are probably at least as worried about the second of these problems as they are about the first, although they seem reluctant to discuss it much in public. Within the resource sector energy constitutes the most serious area of concern, with attention focusing on the country's rapidly-growing dependence on crude oil imports.

Oil imports provided 55 per

cent of South Korea's total energy needs in 1975, but were supplying 60 per cent of the total last year. A one-year-old long-term projection of the South Korean energy picture prepared by the Korea Development Institute (the latest material on the subject that is officially available) suggests that dependence on imported oil will reach 64 per cent in 1981 before, it is hoped, tailing off in the late 1980s.

For this to happen, however, the country will have to be successful in the various energy diversification and conservation programmes on which the government is embarking. Even if success is achieved in these fields, oil imports in 1981 will be double what they were in 1975 and will roughly double

again by the early 1980s (reaching 130m metric tonnes in terms of anthracite equivalent by 1981).

South Korea's energy situation could become easier if the country discovers oil resources on its own territory. The chances of this happening depend chiefly on what happens in the continental shelf area lying between South Korea and Japan where drilling for oil should start in the not too distant future following ratification last year by the Japanese Diet of an agreement providing joint exploration and exploitation of the area.

The so-called Block Seven area covered by the Korea-Japan agreement is known to contain oil-bearing strata and, according to some private

estimates, could contain deposits of about 2bn barrels. Whether oil is actually present in the area, however, will not be known until the drilling programme begins. This could be before the end of 1979, depending on how quickly Japan and Korea agree on the choice of a single operating company to conduct exploration.

If the oil search in Block Seven yields disappointing results (or, alternatively, if it is indefinitely delayed by political or other problems) South Korea will be faced over the next few years with a rapid decline in the extent to which she can rely on domestic energy resources. Production of anthracite coal (38 per cent of the country's total energy resources in 1977) is expected to fall gradually over the next decade, as is consumption of firewood and charcoal for domestic heating (9 per cent of total energy consumption in 1977).

Hydro-electric power generation may rise substantially over the next few years since less than half of South Korea's hydro-electric potential has been developed so far. However, the total contribution of hydro-power to South Korea's energy needs is barely 1 per cent, so that even the doubling of capacity would make little difference to the overall situation.

The rather gloomy prospects for domestic energy resource development point, in the view of the Korea Development Institute, to an increase in the country's reliance on imported energy resources from about 55 per cent of total energy consumption in 1977 to about 60 per cent by 1981 (assuming that the Gross National Product and the amount of energy consumed both grow at about 10 per cent per year through the 1980s).

The problem which faces South Korea therefore becomes one of developing imported energy resources other than oil to avoid a situation in which the nation could be held to ransom by oil producers. A second priority is to diversify sources from which the country imports crude oil, or failing this, to enter into political or economic relationships with oil producers of a kind which might help to guarantee supplies.

In seeking to promote imported energy sources other than oil South Korea is placing heavy emphasis on nuclear power generation. The single nuclear power plant which is operating at present (the Kori 1 plant) has a generating capacity of 595,000 kW, representing about nine per cent of total electric power generating capacity but only about 1 per cent of overall national consumption of energy.

Four more stations are under construction, however, and contracts are expected to be placed

shortly for station number seven and eight. (These figures fall to add up because one nuclear plant project in the government's original programme was cancelled after numbers had been allotted to later plants.)

On the strength of this programme the Development Institute estimates that nuclear power may be supplying 10 per cent of South Korea's energy needs by 1986 and perhaps more than 15 per cent by 1991. This seemingly ambitious figure reflects the government's confidence that the development of nuclear energy will not be held up by the environmentalist opposition that has caused problems in the West (and in Japan, where the difficulty of getting local government authorities to approve power station projects has forced the government to scale down its targets several times).

Nuclear

Heavy reliance on nuclear power will make it necessary for South Korea to sign long-term contracts for the supply of uranium instead of relying on "spot" purchases of enriched uranium as it has done up to now. The Ministry of Energy says it is "working on" this matter but the first long-term contracts have yet to be announced.

Next to nuclear power, South Korea expects to rely on coal imports as the main alternative to oil. The Government is starting to think seriously about ways and means of ensuring stable and long-term supplies from producers such as Australia and the U.S. but has not yet managed to sign long-term contracts with any major supplier. There is a wistful awareness that China would be a natural source of imported coal, but political conditions permit neither with or without China. South Korea hopes that coal imports will be meeting 17 per cent of its energy needs by 1986 and as much as 22 per cent by 1991.

Diversification of oil supplies became a highly-sensitive topic in Seoul in the aftermath of the Iran crisis and is still a matter on which officials at the Ministry of Energy would much rather say nothing at all. Iran was the source of roughly 10 per cent of South Korea's oil imports before its oil industry ground to a halt at the end of 1978.

The National Iranian Oil Company (NIOC) also happens to be partner with the Saangwon group in the construction of South Korea's fourth major oil refinery, which had been due to begin production at the end of 1979.

The question about the Saangwon-NIOC project, which is whether money will be forthcoming to complete the project (almost all the necessary funds

ABN Bank opens in Seoul.

During the past sixteen years, a lot has happened in South Korea. The enormous economic growth has made South Korea an important exporting nation.

Exports which now find their way to the U.S.A., Japan, Europe and many more countries all over the world.

We are not the first bank to realise this growing country's potential. But not many banks can boast the extensive international expertise of ABN, in 40 countries. Experience which has benefited many local and international companies for over 150 years. And it is not as though we are new to Eastern ways. We opened our Djakarta office in 1826, Singapore in 1858, our first Japanese office was opened in 1859 and we have been in Hong Kong since 1906.

We officially open our office in Seoul—the financial heart of South Korea—in May this year. But the office has actually been operating since March. Giving help with import/export financing, international loan operations and guarantees, foreign exchange, money transfers and collections. With fast deals in South Korea or anywhere in the world.

With this new extension to our already comprehensive network, the ABN now gives you the opportunity to take part in the future of this rapidly growing country.

ABN people are ready to serve you almost anywhere in the world.

ABN Bank

Seoul, Algemeene Bank Nederland, Manager Mr. Th. J. Bank, CPO Box 3035, 1818 Daewoo Center Building, No. 286, Yang-Dong, Chung Ku, South Korea, telex 24624.
London, Chief Office, 61, Threadneedle Street, EC2P 2HH, P.O. Box 503, telephone: (01) 628 4272, telex 887366. West End Office, Holland Building, 120 Pall Mall, SW1Y 5EA, telephone (01) 8392531, telex 268252.
Birmingham, 35 Waterloo Street, B2 5TL, P.O. Box 129, telephone (021) 2369681, telex 339343, Manchester, Pall Mall Court, 61, King Street, M2 4PD, telephone (061) 8329091, telex 668469.
Amsterdam, Head Office, Vijzelstraat 32, P.O. Box 669, 1000 EG, telephone 020-299111, telex 12417.
The ABN Bank has offices and affiliations in: The Netherlands, Ireland, England, Channel Islands, Belgium, France, Federal Republic of Germany, Switzerland, Gibraltar, Italy, Greece, Turkey (Hollantse Bank-Uni), Lebanon, Saudi Arabia (Albank Alsaudi Alhollandi), United Arab Emirates, Bahrain, Iran (Almercantile Bank of Iran and Holland), India, Malaysia, Singapore, Indonesia, Hongkong, Japan, Australia, Morocco (Algemeene Bank Marokko S.A.), Kenya, U.S.A., Canada, Netherlands Antilles, Suriname, Venezuela (Banco Continental S.A.), Panama, Colombia (Corporación Financiera Internacional), Mexico, Operating under the name Banco Holandes Unido in: Argentina, Uruguay, Paraguay, Brazil, Ecuador.

CONTINUED ON NEXT PAGE

Trade

Exports given every encouragement

SOUTH KOREA was classified by a team of investigators from the U.S. House of Representatives Ways and Means Committee, which recently visited North East Asia as one of the four "New Japan's" whose export growth poses a threat to the survival of some branches of American industry. Most people in Seoul would probably view this designation as a dangerous, if flattering, exaggeration. The value of Korean exports in 1978, at \$12.7bn, was roughly one-eighth of the Japanese export figure, while Korea's surplus with the U.S. at \$663m, was less than one-tenth of Japan's. This does not alter the fact that exports are overwhelmingly important to Korea—probably more so than to any other developing nation with an economy of comparable size.

Search

have already been disbursed) but whether NIOG will be able to fulfil an undertaking to supply the refinery with oil. If it fails to do so Korea will find itself in the awkward position of having to look to another

target, will show a 22 per cent increase this year over the 1978 level, which in turn was 27 per cent up on 1977. The annual growth rate will slow to 14 per cent in the early 1980s and 12 per cent in the later 1980s, but even at this rate Korea would still be increasing its overseas trade at roughly double the expected world average. In the period from 1965 to 1977 Korean exports grew at an average annual rate of 40 per cent.

One reason why South Korea's exports have grown so fast is that they started from a very low base. In 1963, the year that the present regime came to power, overseas sales were worth a mere \$87m. Even today Korea's exports on a per capita basis are less than half those of Taiwan (a little over \$500 compared with over \$500) and only about one-eighth of typical European levels. Starting from a low base, however, does not provide the full explanation for Korea's subsequent export achievement.

In a closely regulated economic system the Government has done everything possible to "make exports fly" as one U.S. banker puts it. This includes setting export targets for the economy as a whole and for individual overseas markets, encouraging industry to sell its products at lower prices overseas than those charged at home, and ensuring a supply

of cheap export credit (currently available at a basic rate of 9 per cent per year compared with the standard rate for commercial loans of around 22 per cent).

Another Government device to promote exports has been the creation of General Trading Companies on the Japanese model. These are set specific sales targets and in return enjoy certain financial and administrative privileges—besides the prestige of the much coveted "GTC" label.

The main threat to the further rapid growth of Korean exports is the rise of protectionism in western markets—a problem about which the Ministry of Commerce and Industry, which has direct responsibility for seeing that export targets are met, claims to be very worried indeed. The U.S., which is Korea's largest market (taking 31 per cent of exports in 1977), maintains restrictions on Korean textiles, footwear and colour TV sets, while Japan restricts silk products, leather footwear and many different varieties of fish. European countries maintain a patchwork of restraints on the import of Korean products, ranging from textiles to black and white TV sets (in the UK), watches, radios and semiconductor (France).

Korea's strategy for dealing with protectionism is four pronged. In the short term it

aims to increase the value-added content of restricted export items so as to earn more money within a given export volume. (Korea's trading partners claim it also shows considerable skill in exploiting loopholes within export restraint agreements, but this, naturally enough, is not part of the officially admitted strategy for dealing with the problem.)

A second way in which Korea hopes to prevent protectionism from damaging its exports is by shifting the pattern of its trade from light industrial to heavy industrial goods. Textiles, clothing and footwear, which accounted for nearly 50 per cent of Korea's total exports in 1978, are expected to be downgraded by the late 1980s to about a 20 per cent share, while the general category of machinery exports should increase from 15 to nearly 50 per cent of the total.

Korea is already beginning to promote exports of simple industrial plant such as cement and sugar refining equipment (these may be worth as much as \$1bn this year, according to the Ministry of Commerce and Industry, compared with the 1978 figure of around \$330m). It is recognised, however, that the switch from labour-intensive, low technology light industrial exports to capital and skill-intensive heavy industry products will pose a serious chal-

lenge. Meeting the challenge will involve a massive import of technology (from Europe, the U.S. and Japan), as well as a shift of emphasis from short-term export financing of the kind now provided at preferential rates by the Korean banking system to medium and long-term export financing.

The third "leg" of the Korean Government's strategy for fighting protectionism involves a search for new markets. This is not a new priority as can be seen from the fact that export dependence on the U.S. has fallen from over 50 per cent in 1968 to just over 30 per cent today. (Similarly Japan now takes only 21 per cent of Korea's exports, compared with 38 per cent as recently as six years ago). Korea has been successful in stepping up exports to the Middle East (mainly in the form of materials for the spectacular series of contracts won by the Korean construction industry) and is now looking hopefully at Latin America.

The Government has begun to show strong interest in the development of trade relations with China, which is regarded as both a natural market for Korean products such as steel and cement, and fertilisers, and as a natural supplier of fuels and raw materials, notably coal and oil. China, however, has shown no sign of wanting to do business with Korea. The possibility of instituting "indirect" trade between the two countries with Korean products being shipped via Hong Kong or Singapore is being considered in some quarters, but even this appears to be a non-starter for the time being. Japanese trading concerns, which might well act as intermediaries in such business, take the view that China will not embark on trading relations of any kind with Korea until it has succeeded in its current campaign to establish trade links with Taiwan.

The Government's last weapon against western protectionism is the paradoxical one of liberalising Korean imports. Korean industry was heavily protected against imports up to some two years ago (and is still extremely well protected in a number of sensitive areas such as motor manufacture). A programme of liberalisation, however, got under way officially in 1978, with the result that the Government now claims that 68 per cent of Korean trade has been liberalised on an item



The fish market at Pusan. Fish products are among a long list of Korean exports that are finding difficulty in overcoming restrictions in overseas markets.

basis. Another round of import liberalisation is due in 1979 and more will follow in the early 1980s, bringing the degree of liberalisation (again on the official basis of the number of items freed) to over 90 per cent by the mid-1980s.

The Koreans are proud of the fact that they have acted "spontaneously" in starting to free their exports (unlike Japan, which had to be pushed into import liberalisation by external pressure). They hope that freeing imports will not only combat internal inflation and increase the competitive strength of Korean industry (the main economic argument in its favour) but also put Korea in a strong "moral" position vis-à-vis trading partners who are thinking of planning further restraints on Korean exports.

A snag about the liberalisation programme, to which the Government appears to be

highly sensitive, is that too fast a removal of barriers could increase the flow of Japanese goods to Korea, at the expense of less competitive exporters such as the EEC. The current system, under which quotas are allocated to individual countries, enables the Japanese export drive to be kept within bounds. Import liberalisation served to increase Korea's visible trade deficit substantially last year, but this was in line with the Government's overall policy of running a moderate current account deficit and balancing it with capital imports.

Korean exports face one other threat to their continued growth apart from the refusal of foreign markets to admit Korean goods. This is the rapid and continuing rise of Korea's own manufacturing costs and the apparently insatiable demand from the local market for the products of Korean industry. Car exports have grown less rapidly than was at

one time expected because of the huge backlog of domestic demand, while exports of cement and of certain food products had to be suspended altogether during much of 1978 in order to keep the home market supplied.

The Ministry of Commerce and Industry cites supply shortages as one reason why Korean exports started 1979 at rates well below the levels needed to reach the target for the year, while imports were running at levels much higher than called for by the target. The Ministry also claims to be concerned about an overall cost differential of around 20 per cent between Korea and Taiwan in the manufacture of light industrial goods. Such facts provide a corrective to the alarmist view that Korean exports are poised to "take over" western markets. They do not mean that the Korean export drive is about to run out of steam.

C.S.

SOUTH KOREA'S ENERGY NEEDS

(units in thousand metric tons of anthracite equivalent)

	1975	%	1981*	%	1985*	%	1991*	%
Domestic energy supplies:								
Hydroelectric	865	1.2	987	1.0	1,127	1.3	1,237	0.5
Anthracite	15,948	23.5	20,258	20.4	23,364	14.5	26,670	7.0
Wood and Charcoal	6,706	12.4	6,548	4.6	3,034	1.9	1,719	0.7
Total	23,306	43.1	27,793	26.0	28,525	17.7	34,516	9.4
Imported energy supplies:								
Oil	29,733	55.9	62,738	64.2	88,790	55.0	130,173	60.0
Gas	—	—	—	—	—	—	7,865	3.0
Coal	1,910	1.9	7,894	8.0	27,705	17.2	57,084	22.0
Nuclear	—	—	—	—	1,418	10.1	40,823	15.8
Total	36,743	58.9	70,632	74.0	118,913	62.3	235,710	90.6
Grand total	60,049	100	98,425	100	147,438	100	270,226	100

Source: Korea Development Institute



Transforming dreams into reality THE LUCKY GROUP

Sorry. We didn't have enough room for "Made in Korea, Japan, USA, Germany, Canada, UK, Switzerland, etc., etc."

We had to settle for just "Made in Korea." Of course, even though somewhere along the line something from another country always gets involved, there are plenty of Korean things that go into our products.

The most important part of the Korean input is us. Our bold planners and creative idea men. Our careful, diligent workers. (People keep telling us they're the hardest workers they've ever seen.) Oh, and let's not forget our picky

quality controllers.

Put it all together with imports of materials, technology, and plant facilities, and you get The Lucky Group. The eighteen companies of The Lucky Group include everything from manufacturers of daily needs to a large-scale construction firm.

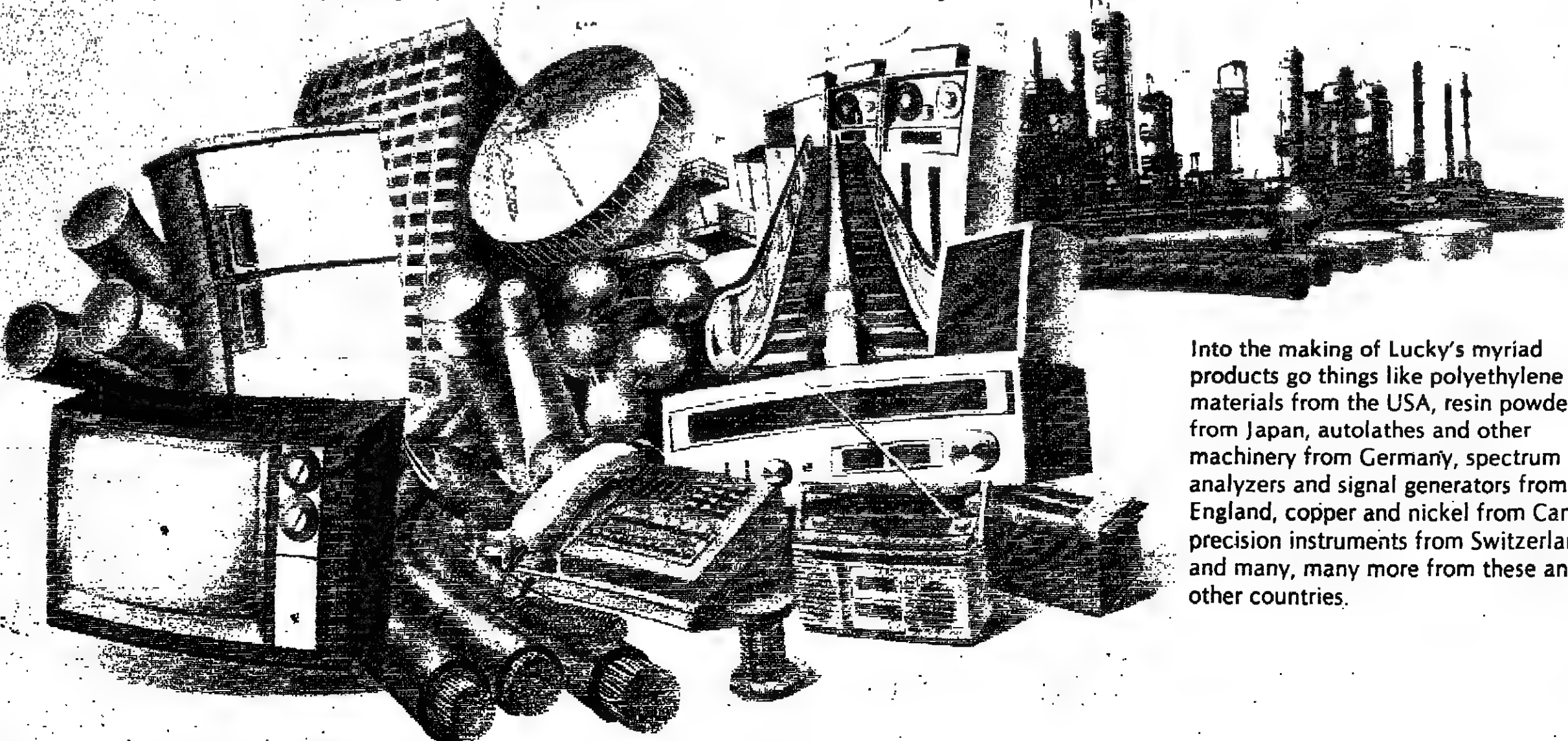
We must be doing something right because we've grown over 1,200% since 1972. Total sales exceeded US\$2.4 billion last year and

are expected to reach US\$3.2 billion in 1979.

We put a lot into making sure that every Lucky service is dependable and every Lucky product reliable and of precision quality.

Just think. Someday something you made might wind up in a Lucky product.

And if it does, you can be sure we'll do our best to make you proud of it.



Into the making of Lucky's myriad products go things like polyethylene raw materials from the USA, resin powders from Japan, autolathes and other machinery from Germany, spectrum analyzers and signal generators from England, copper and nickel from Canada, precision instruments from Switzerland, and many, many more from these and other countries.

The trading arm of The Lucky Group

BANDO SANGSA CO., LTD.

282, Yang-dong, Jung-gu, Seoul, Korea
C.P.O. Box 1899 Seoul, Korea TEL.: (777) 8950/9, (23) 8844
CABLE: FOURCLOVER SEOUL
TELEX: BANDO K27266 K27A70 SEOUL

□ Lucky Ltd. □ Gold Star Co., Ltd. □ Gold Star Cable □ Gold Star Tele-Electric □ Lucky Continental Carbon □ Lucky Development
□ Gold Star Electric □ Hee Sung Industrial □ Kukje Securities □ Gold Star Instrument & Electric □ Gold Star Precision Industries
□ Lucky Engineering □ Lucky Petrochemical □ Honam Oil Refinery □ Korea Mining & Smelting □ Pan Korea Insurance □ The Gookje
Daily News □ Busan Mun-Hwa Broadcasting □ The Yonam Foundation □ Bando Sangsa

Largest Commercial Bank Still Growing

The economic miracle of Korea has become the envy of the world; but it does not just happen, it is the result of hard work and honest cultivation of business.



To find out what experience and individual attention can do for your company, contact our head office in Korea or any one of our overseas offices.

We will be with you always. We deal with all international and domestic banking businesses, besides trust business.

BANK OF SEOUL AND TRUST COMPANY



Head Office: 10-1, 2-Ka, Namdeemun-Ro, Chung-Ku, Seoul, Korea
C.P.O. Box 276, Seoul Tel: 771-80 Cable Address: SEOLTRUST
Telex: 23311, 23312, 23313, 23314, 23315

Overseas Network
New York Agency: 280 Park Avenue, WEST BLDG 24th Floor, New York, N.Y.
10017 U.S.A. Tel: 212-687-6160 Telex: 238238 BOSNY UR

Los Angeles Agency: 707 Wilshire Boulevard, Suite 1950, Los Angeles, Calif.
90017 U.S.A. Tel: 213-680-9487-8 Telex: 87-3518

Tokyo Representative Office: Denki Building, Room 611, 7-1, Yuraku-cho
1-chome, Chiyoda-Ku, Tokyo, Japan Tel: 03-213-0801-2 Telex: J23985

London Representative Office: 65-66 Queen Street, London EC4R 1EB, United Kingdom
Tel: 01 248-8851/2 Telex: 8851507

Hong Kong Representative Office: 29 Queen's Road, 8th Floor, China Building
Central Hong Kong Tel: 5-26675/5 Telex: 63514

Frankfurt Representative Office: Bleich-Strasse 80-82, Frankfurt/Main, West Germany
Tel: 0611-284771-2 Telex: 414134 BSTD CD

Planning pays off

Agriculture

KOREAN FARMERS have come a long way from traditional dependency in recent years, and are now faced with the new challenge of adapting themselves to a fast-industrialising society.

The country is now self-sufficient in rice, the staple food, the income gap between agriculture and industry has been substantially narrowed, and rural living conditions, including the provision of electricity, have been greatly improved.

But to keep up with the growing demands for meat, milk and vegetables, and to cope with a continuing drain on the farm labour force as a result of the country's rapid industrialisation, the Government is actively promoting the transfer to a new concept of farming.

Until the mid-1960s, South Korea, a traditionally agrarian society, had been suffering from chronic poverty on the farms. Every spring the farmers went through a period of hunger before their barley crop was harvested. The rice paddies were so poorly irrigated that they were mostly at the mercy of the weather. More than a third of the rural families, which accounted for 56 per cent of the entire population, were forced to subsist on farms less than 0.5 hectares each in size. To help feed its overcrowding population, the country had to import large quantities of rice and other food grains every year under the U.S. aid programme.

The fundamental problem was the limited amount of the nation's arable land—less than a quarter of the entire territory.

When the Government of President Park Chung Hee initiated a series of five-year economic plans in 1962, the agrarian sector was virtually ignored, while emphasis was placed on industrial development. But beginning with the third five-year plan which started in 1972, increasing attention was paid to agriculture, making rural development one of the plan's chief goals. Top priority was given to increased production of food grains, especially rice, which represented nearly a half of total food consumption by weight.

In 1978 the country succeeded in reaching self-sufficiency in rice, in 1977 an unprecedented

15.2 per cent increase in rice production was achieved, that year's total of 6m tons rice production moving from an average yield of 4.94 tons per hectare—the world's highest figure, topping even neighbouring Japan.

This success in boosting rice output is attributable in the main to the cultivation of high-yielding local strains—tongil, yushin and miryang. The new varieties covered 70 per cent of the paddy fields last year, and this year, is likely to be 76 per cent.

Improved irrigation has also contributed to the increased rice production, as has better use of fertilisers and the widespread use of agricultural chemicals.

Apart from rice, South Korea has achieved self-sufficiency in barley, another important food grain. But the overall domestic grain supply was 25 per cent short of requirements because only negligible quantities of wheat and corn are cultivated at home. Wheat is an uneconomical crop in Korea because of its long growing season, which prevents the double cropping that is possible with rice.

Factor

Another important factor behind the increase in rice output has been the Government's price support policy, which is responsible for purchasing substantial amount of rice and barley from farmers upon harvest every year at higher prices than it sells them to the consumer.

Although the accumulating budgetary deficit accruing from the price support programme has recently led to a call for its abolition, the Agriculture Ministry intends to continue it for several years, if only for rice alone.

Ministry officials emphasise that the price support is vital in narrowing the disparity between urban and rural earnings, which is certain to widen again as industrial wages are increasing fast.

The Government is now encouraging farmers to increase their off-farm earnings, since there is a limit to rises in farm income—such as that from off-season work at factories—rose to 28 per cent of the farmers' total annual earnings last year, it was still inadequate. The Government aim is 50 per

cent by 1990. To this end, it is pushing ahead with a programme to disperse industrial plants to rural areas; results so far are not satisfactory.

Another major problem facing Korean agriculture is the growing shortage of labour due to the continued migration to the cities. The rural population, which accounted for 55 per cent of the national total in 1965, was down to 31 per cent in 1978, and is forecast to decline further to 20 per cent by 1991.

As a result, the proportion of agriculture workers in the total working population dropped from 63 per cent in 1963 to below 40 per cent last year. What makes it worse is the fact that most of the city-bound migrants are young people.

The Government sees gradual mechanisation of farming as the only solution to this problem. To promote mechanised farming, the National Assembly last year passed a special law providing financial assistance in the

form of low-interest loans to farmers in buying farm machines.

But given the small size of unit farms, less than a hectare per household, and the irregular shapes of paddy fields (only 18 per cent of which have been rearranged into regular patterns under a Government programme), mechanisation is still far off. At present, as the principal farm machine there are 210,000 locally produced small power tillers—one for every 10 households. The government plans to increase their number to 500,000 by 1986. Meanwhile, it will also increase rice transplanters and harvesters (which are rare now), to 120,000 and 80,000, respectively.

Another new direction for Government's agricultural policy is the promotion of the livestock industry to meet the fast-rising demand for meat and dairy products. Last year, for the first time, beef and mutton had to be imported, mostly from

Australia. This year, meat imports are expected to increase to 72,000 tons, costing about 140m won.

The Government is extending loans and tax benefits to encourage livestock and dairy farming. There are a number of constraints, including vast amounts of investment needed to develop pasture land on the hillsides which abound in Korea and the need to import most of the required feeds. Nevertheless, the Government has a long-range plan to increase the population of imported beef cattle from the present 47,000 to 226,000 by 1991 and dairy cows from 194,000 to 558,000.

One unique feature of Korean rural progress is Saemaul Undong, the new community movement, launched in 1970 at the initiative of President Park. An integrated rural development campaign with the concepts of "diligence, self-help and co-operation," it has been

instrumental in galvanising the farmers into improving their living environment and productivity, then raising their incomes. Elected village committees select projects, which are implemented chiefly by voluntary labour with some Government assistance in the form of cash and building materials.

Saemaul Undong started with such simple projects as improvements to roofs and drains; moved on to infrastructure projects, including farm roads, small bridges, electricity and piped water; and then to income supplement projects such as joint livestock raising and sericulture. Its latest project is intervillage co-operation for regional development. The movement has now extended to urban neighbourhoods and factory workers to mobilise the entire nation in self-help projects at the local level.

Samuel Kim

Foreign investment

The rush slows down

FOREIGN DIRECT investment, which was once attracted to South Korea by the low-cost labour supply, is still continuing to flow in now chiefly because of the rapidly growing local consumer market. For the third consecutive year foreign investment arrived at an annual rate of around \$100m in 1978. This year's Government projection is for another \$100m.

Since the Government began encouraging foreigners to make equity investments in 1962, when a series of five-year economic plans began, a total of just over \$1bn has been approved in 891 cases; \$873m had actually arrived by the end of 1978.

When the Government decided to open the door to foreign investment as a means of financing its ambitious economic development plans and introducing technical know-how, the major attraction Korea could offer was a cheap labour market. There was an abundance of literate, hard-working, easily trainable and dextrous labour available at \$30 a month starting wage.

After South Korea normalised relations with neighbouring Japan, its former colonial overlord, in 1965, there began a sudden rush of Japanese investors into the country. Most of the Japanese investments were for producing labour-intensive goods such as textiles for export to Japan and other countries.

The Korean Government then enacted a special law governing the introduction of foreign commercial loans, equity investments and technological know-how. The law, still in force, provides for a five-year tax holiday followed by three years 50 per cent tax reductions to foreign investors. It also guaranteed the unlimited remittance of dividends or profits and the repatriation of principal after two years of operation. It was described as one of the most liberal foreign investment laws in the world.

In the league table of countries Japan came first with 59 per cent of all foreign investment approvals in terms of cash, totalling \$384m in 665 operations. The U.S. followed with \$194m in 116 projects which accounted for 19.2 per cent.

Among the Europeans, the Dutch have the largest investments in Korea—\$73m covering four cases. They include a joint venture petrochemical project by Dow Chemicals of the Netherlands, West German investments total \$19m covering 18 cases, French \$11.3m (five cases) and Swiss \$12m (seven). Investments by British companies amount to \$11.6m in five projects. They include \$5.6m by Hill Samuel for a 50 per cent equity stake in a merchant bank; \$4.1m by Lazard Brothers, also for 50 per cent interest in another merchant bank; \$1,050,000 by Lucas CAV for 70 per cent ownership of a plant manufacturing nozzles for diesel engines; \$800,000 by Spirax Sarco of Cheltenham, Gloucestershire, for 60 per cent share in a steam controller manufacturing plant; \$208,000 by Foster, Wheeler of the Midlands in a factory producing chemicals for foundry and steelmaking.

The last three are in joint ventures with Korean partners to produce and market their products locally. "We came here in order to get into the Korean

market, which we found is large, growing and buoyant," explained Christopher J. Ball, president of Spirax Sarco Korea.

His company plans to start producing in June at its plant in Binyong, just outside Seoul. It hopes to export to other Asian countries from next year.

A. J. Wyatt, project manager of Lucas CAV overseas operations who is helping set up the CAV Korea plant in Changwon on the south coast, expressed a similar view. "As a multinational company, an opportunity of looking for a plant in Asia and saw in Korea the potential of future growth," he said.

Both Mr. Wyatt and Mr. Ball said that labour supply is no problem in Korea, but except for manual workers, labour is no longer so cheap. A machine operator should be getting the equivalent of \$350 to \$400 a month, compared with a corresponding equivalent of \$550-\$600 in Britain, while the salary for middle management people, \$750 to \$900 a month including bonus and other fringe benefits, is about the same as in Britain.

Government officials maintain that the average wage level for semi-skilled workers in Korea is still a little lower than in Hong Kong and Singapore and about equal to or slightly above Taiwan rates. Thus Korea seems to be fast losing its once large edge over other labour countries as the cheap labour market for foreign investors is in recent years.

This is reflected in the sharp decline of new investment in

labour-intensive industries.

Indeed, the Government no longer approves foreign investment in textile industry because Korea's existing mills have trouble keeping up their exports because of quota restrictions by major importing countries.

According to Mr. Kang Shin-Joe, director general of the Bureau of Foreign Investment Promotion, the Government welcomes the following projects: ● Large-scale complex projects, such as metals, machinery and electronic equipment, which require high level of technology; ● Export-oriented projects which will contribute to exploring overseas markets; ● Projects which contribute to the development and effective use of domestic resources; ● Import substitution projects.

Mr. Kang said the latest trend is investment in food processing, and in heavy industries such as chemicals.

This year CPC International of the U.S. invested in a joint venture to produce snacks and instant noodles, Nestle of Switzerland in a joint project to produce baby foods and high protein foods, and the Lotte confectionery group of Japan in a milk and meat processing venture.

Brown Boveri of Switzerland is known to be negotiating with Seoul's Daewoo group for a joint venture to manufacture power plant facilities, and Babcock of West Germany for a project to produce power plant boilers. Volkswagen of West Germany is reported to be seeking a Korean partner for production of small cars.

Imperial Chemical Industries and Dunlop of Britain are also

said to be looking into investment possibilities.

Although there is no legal limit to the share of foreign investors in an enterprise, the Government allows, in principle, up to 50 per cent equity. In the following cases, however, majority or 100 per cent foreign ownership may be authorised: ● Projects entirely export-oriented and at the same time contributing to raising the technological level of the particular industry; ● Projects with imported technology that is highly sophisticated and needed by the economy; ● Projects by multinational corporations that are permitted 100 per cent ownership in other countries because of their exclusive production techniques, business operations including market control on a global basis, or patent rights; ● Investments that are beyond the capabilities of local firms, because of capital requirements, technological sophistication or market opportunities; ● Investments from the countries with little previous participation in Korean economy.

The minimum amount of foreign equity investment authorised is \$200,000, but for electronics and machinery industries is reduced to \$100,000. In the industrial engineering field \$50,000 is the minimum requirement.

South Korea does not permit any portfolio investment in the stock market by non-resident foreigners. Even for residents no profits can legally be repatriated out of the country.

Samuel Kim

Attractive and sporty that's the Pony



The elegant and attractive passenger car PONY, in line with today's requirements, is now being exported to 40 countries gaining more popularity day by day.

The toughness of the PONY's rigid body makes it unbeatable

for highway motoring. Also the PONY delivers outstanding fuel economy.

Plenty of power, a comfortable interior and wide-angle vision for the driver ensure safe and fast driving.

HYUNDAI MOTOR COMPANY

140-2, Ke-Dong, Chongro-Ku, Seoul, Korea Telephone: 763) 0211, 763) 0311
Telex: HDMOCO K23521, K23522 Cable: "HYUNDAIMOTOR" SEOUL

KOREA EXIMBANK SUPPORTS ALL OF YOUR TRADING ACTIVITIES IN HEAVY AND CHEMICAL PRODUCTS.



MAJOR SERVICES

- Supplier's Credit for the export of Korean capital goods and technical services
- Overseas Investment Credit to Korean firms for joint ventures and development of major resources
- Buyer's Credit-direct loan and lending facility to foreign entities to help foreign importers finance the purchase of Korean goods
- Underwriting of export insurance to protect from losses incurred in the export of merchandise and in overseas investment

THE EXPORT-IMPORT BANK OF KOREA

A GOVERNMENTAL FINANCIAL INSTITUTION
C.P.O. Box 40th Street, Korea Telephone 778-3930/9 23-8101/5
Cable Address: EXIMKOREA, SEOUL Telex: K26595

REPRESENTATIVE OFFICE	ADDRESS	TELEX
New York	Rm 40501 Hanuk Bldg. 460 Park Ave.	428144 EXIMBK
London	Unit 134H Plantation House 31 35 Fenchurch St. B.P. 4674 Abidin	581240 EXIMBK
Abidin	C/O Citibank	
Los Angeles	707 Wilshire Boulevard, Suite 4540 L.A.	181230 KOREA EXIMBK
Hong Kong	Korea Center Building 119 120 Connaught Road C.	74386 KOCEK HK

SOUTH KOREA IX

On the last four pages of this Survey IAN HARGREAVES, who has recently visited South Korea's major industries, outlines the country's industrial strategy and looks in greater depth at individual sectors.

A second industrial revolution

SOUTH KOREA is now in the process of bringing about its second industrial revolution within 20 years.

The first revolution involved dragging a war-ravaged country, lacking raw materials and with an economy based on primitive agriculture, to a semi-industrialised condition. That meant using cheap labour to develop light industries, notably textiles, and the simpler ends of the consumer electronics and metal fabrication industries.

Hardly had the country adapted to its success in selling goods such as clothing, shoes, and televisions before the economic theorists and industrial planners started to argue that Korea must rapidly start to reduce its dependence upon the light labour-intensive industries upon which its success was based.

There are three main reasons for this decision: the awareness that Korean labour is rapidly pricing itself out of the cheap

assembly market (wages costs rose by over 30 per cent in both 1977 and 1978); the growing protectionist restrictions in advanced countries against high volume and low added value goods; and the feeling that competition from other developing countries will be less keen in more technology-intensive areas.

The strategy is for the heavy and chemical industries to account for 65 per cent of manufacturing output by 1991, compared with 48 per cent last year, and for light industries to decline from 52 per cent to 35 per cent.

Some of the implications of this policy are already apparent: for example, the emergence of Korea's motor and shipbuilding industries; but many features of the strategy are far less well defined and less easily described.

What Korean planners call the "machinery industry," the subject of four promotion plans

in the last eight years, is only now moving from the planning to the operational stage. The heart of the development is the Changwon integrated machinery complex near Busan, where the dust is still settling on the 51 plants already complete, but where another 150 factories remain to be built.

These factories have already started to turn out machine tools, construction equipment, boilers, nuclear power station components, railway rolling stock, motor components, transformers, turbines, cranes, bearings; indeed, anything and everything in heavy industrial production, involving a growing number of technology-intensive agreements and, less frequently, joint ventures with advanced countries. Last year the machinery industry entered into 104 cases of technological inducement out of a total of 255 in Korea (there were 42 electrical agreements and 38 petrochemical—the other key

developing areas). In spite of the Koreans' urgent desire to strengthen their links with Europe at the expense of Japan, well over half the technology deals were with Japan and another 48 with the U.S. The Koreans want to make their switch partly to reduce their trade deficit with Japan but also to improve relations with Europe on the protectionist front and because some companies feel the Japanese have sold them outdated technology of limited value in export markets.

So far the development of the machinery sector is very uneven. But it is already clear that it will be dominated by seven companies, which by 1981 are expected to have aggregate sales of \$6.1bn in this field and account for 60 per cent of the industry's output. They are Hyundai Heavy Industries, Hyundai International, Daewoo, Samsung, Daehan, Kangwon, and Hyosung.

Impressive progress has already been made in areas such as railway rolling stock, where Hyundai has recently joined Daewoo in contention for both substantial domestic orders and exports, which the Korea Development Institute expects to reach \$100m by 1991. Hyundai is reported to be close to a significant export deal with Greece, and at home, the industry is now almost self-sufficient, with the help of foreign technology.

Output of heavy electrical machinery (generators, transformers, motors, etc.) reached \$222m last year, still significantly below the target of \$300m for a small industry, but twice as large as the year before. More important from the Korean point of view, exports and imports were roughly in balance; in other words, in the heavy electrical sector Korea is in a position to meet domestic needs.

Imports

In some other areas, this is far from the case. For machine tools, the country relied on imports for over 65 per cent of its needs last year, and outside the simple lathe sector the dependence on foreign goods was even higher. In chemical and construction machinery, domestic needs have grown so fast that the level of self-sufficiency has actually slipped back from 37 per cent and 9.5 per cent in 1974 to 17.8 per cent and 7.3 per cent last year. On the other hand, Korea already has a healthy surplus in the agricultural machinery trade.

The Government's goal is to achieve an overall level of self-sufficiency of 70 per cent by 1981 in preparation for a major export assault in the fifth five-year plan starting in 1982. It is interesting in this context to note the general policy of Korean industrialists, even where their export base is tiny, in spreading their products into as many markets as possible in order to gain maximum experience and to prepare distribution and marketing arrangements.

Hyundai Motor is not untypical in exporting to more than 40 countries.

There are huge problems to

overcome if this and other industrial targets are to be met. In the short term, a major difficulty is the shortage of investment funds in Korea because of the Government's anti-inflationary tight-money policies. Korean businessmen are used to high interest rates (18-20 per cent), but everyone is complaining about shortage of funds at the moment and some companies are talking of cutting back development projects by as much as 30 per cent this year if the reins are not eased. The short-term working capital has also aggravated an always tight position in relation to component stockholding, which is an important reason for many industrial shortages of key raw materials in the early part of this year.

More underlying problems are the shortage of skilled labour, in spite of a recent decision to increase post-high school college places by 40 per cent last year. Employers are no longer

able to count on a thick pile of applications for every vacancy, and in an area like Changwon the high demand for new labour is a big anxiety for some companies. This shortage of labour is also the reason for high wage inflation as employers fight to retain staff. Contrary to the Japanese model, labour turnover in Korea is high—8.4 per cent a month, according to the Economic Planning Board. Even so, the typical male industrial wage is still only between \$250-\$350 a month, including bonuses. A function of the shortage of skilled technicians and scientists is the still inadequate level of spending on research and development—less than a quarter of that in European countries and something the planners know they must reverse quickly to underpin the industrial strategy.

Coupled with general worries about the price of oil and the sluggishness of the world economy, there is much to sug-

gest that the second stage of Korea's industrial transformation will be harder to achieve than the first.

In pursuing its objectives, the Government's weapons are an armoury of import protectionism in the form of high tariffs against unwanted items (although the theorists of the planning Board are adamant that Korea is moving to an open and liberal trading pattern, more like that of Sweden than that of Japan), cheap loans for companies investing in preferred sectors, tax incentives and measures to encourage the inflow of foreign technology.

But probably more significant than all of these specific measures is the fostering of the nation's economic and industrial consciousness through, among other means, the Factory Saemul (new community) movement. This campaign, modelled on an earlier successful drive to get farm labourers to work harder and more cooperatively, has, according to company directors, produced dramatic improvements in labour productivity. In return for which companies have invested heavily in welfare and recreational facilities for their staff.

Saemul is an important part of a set of national attitudes, stemming from the common desire to be economically superior to North Korea, which has so far kept South Korea free of labour troubles. Although a classically capitalist economy, great effort is expended by the Government in preventing ostentatious displays of wealth (it is common for plant managing directors to wear the same uniforms as their operatives) and in attempting to reduce income differentials.

"We are working for the next generation," is probably the most common philosophy one hears expressed in South Korea and it explains the willingness of most to accept the six or seven day week of 10-12 hour days. It remains to be seen whether the sheer effort and determination which has got Korean industry through its first stage of advance will be sufficient to power it through the second.

Textiles

Still a major force

SOUTH KOREA'S industrial leaders have a habit of relating to their textiles industry as if it were in a state of decline—the glory of a former light industrial age soon to be forgotten in the present generation's move into heavier and more technology-intensive sectors.

This is misleading. In 1978, textiles exports accounted for 31 per cent of the country's total sales of goods abroad. At \$3.98bn, the industry's export sales remained Korea's biggest foreign exchange earner and the key provider of capital for diversification into heavy and capital-intensive industry. It also employed 20 per cent of the workforce.

As the table shows, the Government expects the industry to continue growing, doubling the value of its exports in real terms between 1978 and 1981. The industry's own assessment, as disclosed by the Korean Federation of Textiles Associations, is to export goods valued at \$6.5bn (at current prices) in 1981, a 60 per cent increase on 1978.

In that year, the Government's next five-year plan was to export \$50bn-worth of goods. So the textiles share will be down to 20 per cent of that total but, according to the association, the volume of textile exports will still have lifted Korea from sixth place in the world industry rankings to fourth, with 10 per cent of worldwide textile exports share.

The reason for the sense of decline, which is strongly felt

in the important long-range study of South Korea's economy to 1993 published last year by the Korea Development Institute, is the feeling that with wage-cost inflation running in excess of 30 per cent a year, Korea is soon going to be outperformed by labour-intensive industries such as textiles.

In particular, it is felt, Republic of China, whose textile industry costs are thought in Korea to be at least 65 per cent lower than its own, will emerge as an industry leader. Initially in natural fibre products and then in synthetics.

Another reason for expecting poorer performance is the very great anxiety, felt in Korea, especially in the textiles and electronics industries, that the growth of protectionism in Western markets. The EEC is limiting Korean textile imports to a 6 per cent annual growth rate and the U.S. to 6.5 per cent. The industry says it could comfortably expand at double this rate in these markets if permitted.

But the South Koreans are realistic. They do not believe the restrictions will be eased, although they argue keenly (more in electronics and motor cars than textiles) that they should not be punished for the sins of Japan. Their response to the restrictions is to move into industries where restrictions do not exist.

That said, the Korean textile manufacturers have carefully laid plans for continued growth in spite of protectionism and in

spite of rising wage costs. That strategy involves switching to higher quality and higher added value goods in restricted markets and pushing more volume into unprotected markets.

Last year, quota-area countries took 49 per cent of Korea's textile exports (\$385m to the U.S. and \$735m to the EEC) and of the \$2.01bn-worth of goods sent to unrestricted markets. Japan accounted for \$1.04bn. That, the South Koreans believe, indicates that plenty of room remains in other developing-country markets. The Middle East is of growing importance.

This year, garment manufacture will account for 62 per cent of exports, in 1988 for only 50 per cent, with fabrics taking 37 per cent and yarns 13 per cent. Fabrics then, and principally synthetic fabrics, represent the real growth sector.

The preference for a future emphasis on chemical rather than natural fibres is also based on the relative economics of the Korean industry compared with other developing countries. All of Korea's wool and cotton are imported, whereas Korea's growing chemical industry (described elsewhere in this survey) means that textiles companies will not be in the position for much longer where the chemical fibre manufacturers rely on foreign suppliers for 70 per cent of their AM monomer, 60 per cent of front caprolactam and all of their TPA.

South Korea's industrial planners feel certain that the days when the country's industrial economy could work merely by rapidly processing for re-export the raw materials of others are rapidly vanishing. The synthetics sector of the Korean textiles industry is also its most modern. In the worsted/cotton companies, 30,600 spindles (almost 1 per cent of the total) are over 20

years old, which is twice the accepted level of durability. In 1978, 31 per cent of spindles and 35 per cent of looms in the cotton industry were over this 10-year limit and the situation is thought to have improved little since then. Cheil Wool Textile, part of the Samsung group, says the average age of its spindles is seven-eight years and the company is now engaged in a five-year modernisation programme.

Cheil, biggest of the 27 wool textile companies in Korea, with about a 45 per cent market share, provides an interesting counter trend to the general strategy of the industry's move away from garment production. Cheil is still expanding fabric production, but is also starting to make garments with the aim of this sector accounting for 40 per cent of its \$400m projected sales in 1983.

Mr. S. B. Lee, the company's president, admits that the requirement for an extra 35,000 workers, mainly women, in the next five years is rather daunting in the current Korean labour market. The company's reasoning is that, tied to restricted U.S. and European markets for 80 per cent of its woolen and worsted business, garment manufacture, with the right attention to fashion, offers high added value opportunities.

One market which does look good for the South Korean manufacturers is their own. Rapidly rising real incomes mean that per capita consumption of textiles in Korea, which has risen 13 per cent in the last two years, is expected to double again in the next eight—to 16.7 kilograms per head in 1986. This is equivalent to the level of UK textiles consumption in 1973. The result is that by 1986, 43.5 per cent of the South Korean industry's output should be sold in its home market, compared with 33.4 per cent this year.

PRODUCTION AND CAPACITY OF MAIN TEXTILE PRODUCTS

Product	1976	1977	1978	1981	1986	1991
Chemical fibre						
Annual production (000 tonnes)	354	395	483	736	1,023	1,352
Capacity (tonnes per day)	1,010	1,130	1,280	2,100	2,950	3,860
Self-sufficiency ratio of fibre output in synthetic textile industry (%)	82	82	85	90	95	98
Nylon F Production (tonnes)	71,800	82,600	98,500	147,000	206,000	269,000
Capacity (tonnes per day)	1,010	1,130	1,280	2,100	2,950	3,860
Polyester F and SF Production (tonnes)	133,800	158,000	205,300	314,000	440,000	575,000
Capacity (tonnes per day)	380	450	590	900	1,260	1,640
Acrylic SF Production (tonnes)	102,000	107,300	105,300	182,000	255,000	323,000
Capacity (tonnes per day)	290	310	280	520	730	850

Source: Ministry of Commerce and Industry—latest estimates.

KOREAN TEXTILE EXPORTS 1976-1991

	1976	1977	1978	1981	1986	1991
Natural fibre	140	149	222	247	390	368
Man-made fibre	258	302	367	469	611	794
All fibres	398	442	589	712	911	1,160
	1976	1977	1978	1981	1986	1991
Total value of exports	2.74	2.9	3.56	4.86	6.1	7.2
Fibre and yarn	0.28	0.33	0.38	0.52	0.77	1.4
Fabric	0.66	0.68	0.99	1.31	2.28	2.82
Finished garments	1.8	1.89	2.19	2.77	3.05	1.8
Share of product category in total exports						
	1976	1981	1991			
	11%	28%	20%			
	28%	28%	40%			
	61%	44%	40%			

Source: Ministry of Commerce and Industry—latest estimates.

MOODY INTERNATIONAL

Quality assurance

Project management, procurement, inspection and test—expediting

Companies ordering goods manufactured in Korea use Moody Engineering for quality assurance audits, vendor capability reviews and inspection and expediting programmes to save substantial costs, time and frustration.

As part of the worldwide Inbacon Moody International group, Moody Korea also provides project management services on projects inside Korea and in association with Korean companies operating in other areas.

Moody's expertise covers most disciplines and products, including high technology industries such as nuclear energy, oil, gas and petrochemicals.

Moody Engineering Co Ltd Korea
C/O B.O. Seoul Republic of Korea
Tel 777-4157/Telex K28378 ISACO
for further details contact
Moody International Limited
Oakfield House, Perry Mount Road, Haywards Heath,
Sussex RH16 3BP. Tel 0444-56441 Telex 877237

International Offices:
USA-CANADA-SOUTH AMERICA-INDIA-KUWAIT-JAPAN-ITALY-NETHERLANDS

BUSINESS IN KOREA

with

ARIRANG TRADING LIMITED

We specialise in introducing products to Korea and amongst our clients are many Korean Companies seeking trade in industrial and electronic technology. Let us promote your interests in Korea.

For further details write to, or phone:

31-32 Poland Street, London W1V 3DB. 01-437 8179

Only if you want the best package arrangements, whether on business or pleasure, in

SOUTH KOREA

with extensions to all other destinations in the East

Please write or call

DISCOVER THE WORLD TOURS

The specialists to the East

10 Gilbert Place, London, WC1A 2JD.

Phone: 01-405 0747

To Create and Evolve

These have been the tenets of Samwhan's business philosophy since our founding in 1946.

Create. All over the world Samwhan men are toiling to contribute to human welfare, both present and future. Creation is the true business of men.

Evolve. Samwhan's capability extends into all construction fields, with every project firmly based on efficiency, economic performance and quality. We constantly seek and perfect new methods and designs to turn our creative ideas into progress.

Samwhan: Where today and tomorrow meet.

OVERSEAS BRANCHES

- JEDDAH — Telex: C/O 401095 KANDRA SJ. Phone: 57586
- RIYADH — Telex: 201414 SAMWAN SJ. Phone: 67014, 62337
- SAHARA — Telex: 2383 SWCSNA YE. Phone: 2063
- HOEDEIDAH — Telex: 5536 ADDHAFFER YE. Phone: 2822
- SAN FRANCISCO — Telex: 278487 SWCUSUR. Phone: (415) 235-3755
- CLEVELAND — Telex: 8104218293 KELLEY QLV. Phone: (216) 833-7500
- JAKARTA — Telex: 46195 SAMNUCOIA. Phone: 510431
- SINGAPORE — Telex: SAMWHAN RS22086. Phone: 377853, 376306
- TOKYO — Telex: SAMWHAN J26363. Phone: 479-0656, 479-0657

HEAD OFFICE

38-20, Wooni-dong, Chongro-ku, Seoul, Korea.
C.P.O. Box 42, Cable: "GREENLIGHT SEQU"
Telex: SAMWHAN K28212, K24389
Phone: 261-3151/5, 261-5105/9

SAMWHAN CORP.
SAMWHAN ENG.

Chairman: Chong Whan, Choi

SAMWHAN Turns Ideas Into progress

SOUTH KOREA · X

Steel

Public ownership debate

PUBLIC DISAGREEMENT between businessmen and the Government is still rare in South Korea: a country characterised by a remarkably high degree of unanimity about national economic and social objectives.

But there was an exception in the closing months of last year, when the country's three largest industrial conglomerates, Daewoo, Samsung and Hyundai, all made it clear with varying degrees of vociferousness that they would like permission to undertake the construction and operation of Korea's second integrated steel mill.

In the end, the Government ignored their bids and said that the number two mill, like number one, would be owned and operated by the Pohang Iron and Steel Company (POSCO), a company formed in 1968 with a 50 per cent Government stake and 50 per cent from a mixture of banks.

The Government was, of course, only following a general

steel industry trend for public ownership of what is a highly capital-intensive industry, besides reiterating its confidence in the ability and experience of POSCO, which even the rival conglomerates agree produces steel of acceptable quality.

There were many reasons for the private sector wanting a major stake in the future of Korea's steel industry. One is the industry's profitability, with POSCO returning a net surplus of \$40m last year against \$33m in 1977; a second is the attractiveness to these conglomerates, which are all heavy steel consumers, in having guaranteed supplies at controllable cost and quality.

But a more general and underlying feeling among the big industrial groups is that the Korean Government is being too cautious about steel and ensuring by its caution that the country will remain a net importer of steel for the foreseeable future.

In its plan for the second mill, the Government has responded to this criticism by firmly committing itself to an enlarged target of 12m tonnes a year capacity for the facility, which is virtually certain to be built at Asan Bay on the West coast of the peninsula. The 3m-tonnes a year first stage, which is estimated to cost \$2bn, is due to start operation by 1984, and it will be financed by a mixture of POSCO's retained earnings and foreign credit associated with purchases of equipment from overseas. There is no indication yet whether POSCO will rely on the same Japanese and Austrian technology upon which it based its initial integrated mill, but in view of the fact that subsequent stages of the first mill have involved large contracts with other countries, the field would appear to be open for the new project.

In the private sector, the re-

but over the second steel mill has not deterred the big companies from moving forward. ICC, which is one of Korea's 13 general trading companies, last year took over Union Steel, whose 0.7m tonnes of crude steel output last year made it the largest private sector steel-maker. In the same year, Hyundai bought the small Incheon Iron and Steel company, and Kumho, another general trading conglomerate, took over Kukdong Steel. Hyundai plans to increase the output at Incheon from 380,000 tonnes to 1m tonnes, and Union Steel has plans for a new 500,000 tonne-per-year development.

Experience

These groups probably retain the hope that if they can acquire substantial experience of steel-making they may be in the running when the Government comes to authorise a third coastal integrated steel complex, perhaps towards the end of the next decade. Meanwhile, Hyundai, at least (as described in the article on construction), is also showing interest in taking both a financial and operational stake in the steel industries of other developing countries.

This increase in private sector steelmaking, which mainly uses electric arc technology and turns out reinforcing bar, pipes and galvanised products, does have the effect of introducing greater flexibility into South Korea's steel strategy in that the private companies may well be able, if their plants are profitable, to extend production facilities beyond existing targets. The fact that by 1991 Korean exports are predicted a more than 8m tonnes a year shortfall between domestic production and demand will clearly encourage this trend.

So the world steel industry does not have to worry too much in the next ten years about being swamped by Korean steel exports, in spite of the recent dramatic statement by President Park Chung Hee that by 1986 South Korea would be the world's tenth largest steel producer.

There will, of course, be some exports during this period, partly because of POSCO's need to earn hard currency to finance its debts and future development, and partly because the corporation's uneven production range means it is unable to meet

domestic demand (especially for steel plate, coils for re-rolling and for special alloy steels) while having disposable surpluses of other products. Last year, Korea exported and imported 1.3m tonnes of steel products. The country's exports thus accounted for less than 2 per cent of world steel trading.

In the past the planners have shown a tendency to underestimate Korean steel demand, which is now expected to reach 10m tonnes this year, three years ahead of schedule, and to continue growing at around 24 per cent a year. The more rapid than expected growth of the construction industry has been partly responsible, and this year Korea expects to import 160,000 tonnes of reinforcing bar to satisfy a 30 per cent increase in demand for the product. Total domestic demand for reinforcing bar is put at 1.8m tonnes this year.

Some steel products, such as girders, steel rails and sheet piling, are not currently produced in Korea at all and so will continue to be imported for the foreseeable future. There is also a severe shortage of many special steels, although an important gap for the electrical industries will be filled from September of this

year when POSCO brings on stream an 80,000 tonnes a year silicon steel manufacturing plant.

Last year, there was a big shortfall in stainless steel production, with the Korea Special Steel Company (part of the Sammis group) turning out 150,000 tonnes of stainless steel bars, plates and pipes against domestic demand of 540,000 tonnes. A new stainless steel plant with 100,000 tonnes per year capacity is to be constructed, starting this year, by Daehan Jungki, and Korea Special Steel will by 1985 have completed its expansion programme for another 950,000 tonnes per year capacity. According to the Ministry of Commerce and Industry, this will give Korea a total capacity of 1.5m tonnes a year in special (mainly stainless) steels by 1985, by which time domestic demand is predicted at 2m tonnes.

The Government says that more rapid expansion is impossible because of shortages of skilled labour and difficulties in raising the vast capital sums required.

South Korea's brushes with steel protectionism, with the EEC, the U.S. and Australia, have also cooled the ardour for

steel exports. In 1978, exports to the EEC are provisionally estimated at less than 100,000 tonnes, against a permitted voluntary quota level of 230,000 tonnes. The Koreans feel that it is not worth upsetting Europe over steel at a time when they are urgently trying to foster trade and technology links with the continent as part of the switch from economic dependence upon Japan. Steel imports from the EEC, meanwhile, have been allowed to grow to 175,000 tonnes in 1978 as part of the same strategy.

When POSCO does export, however, its prices are highly competitive—10 per cent below those of Japan. This reflects lower wage costs and a high level of productivity, which POSCO now puts at 437 tonnes per man year, compared with Japan's 445. European productivity is generally lower, although precise comparisons are impossible because of different systems of counting employees. At POSCO, there are 4,500 subcontracted workers who are not taken into account in the productivity calculation. Domestic steel prices are controlled directly by the Government and for much of last year were running above international levels (steel plate, for

example, was \$300 a tonne), although recent improvements in the world steel market have brought domestic and international prices closer together. POSCO, as would be expected, pitches its export prices below the prevailing international rate and has exported to 31 countries, which represents a policy of spreading a small quantity of exports thinly in order to gain experience of a large number of export markets.

Dependence

In the field of non-ferrous metals, South Korea's present goal is one of self-sufficiency, reflecting, as with steel, a heavy dependence upon imported raw materials. Substantial quantities of aluminium and lead ingots are expected to continue for some years, although production of electrolytic copper and zinc (the latter is one of Korea's few basic metal products for which there is adequate supply of domestic ore) is now just about equal to domestic demand. In the case of refined lead, imports will continue in spite of domestic ore resources because domestic demand remains inadequate to justify investment in a large-scale refining project.

Motors

Demand takes off

KOREAN MOTOR INDUSTRY PRODUCTION AND EXPORTS 1967-1978 (UNITS)

	Cars		Buses		Trucks		All vehicles	
	total	exports	total	exports	total	exports	production	motor exports
1967	4,933	—	236	—	1,385	—	6,554	—
1975	15,509	—	3,908	—	14,973	—	31	37,290
1976	25,095	558	3,468	36	19,218	649	48,282	1,243
1977	42,284	5,073	5,453	6	35,363	4,055	83,000	2,186
1978	65,093	25,098	7,219	67	63,446	566	156,418	36,271

Source: Ministry of Commerce and Industry.

the 2m units 70 per cent will be cars, 20 per cent trucks and 10 per cent buses and special vehicles.

In the present situation this throws a heavy responsibility on Hyundai, whose share of output between now and 1981 is expected to increase from 50 to 60 per cent. The Pony remains the only genuinely Korean car and it accounted for all but 7,000 of last year's motor vehicle exports.

Hyundai is in the process of extending its plant at Ulsan on the south coast of the Korean peninsula to raise capacity to 250,000 units a year by 1981. Of these 200,000 would be Ponies, 20,000 Mark IV Corollas and Granada kits and 30,000 truck and bus.

But the leap now being planned is for a new plant to be constructed inland (thus rejecting the British and U.S. advice which persuaded Hyundai to go coastal with its Ulsan plant, which has since suffered from subsidence, having been built on reclaimed rice paddy) and to be complete by 1984. It will be financed by an issue of shares of the Korean stock exchange, where Hyundai has kept investors happy with another 22 per cent dividend this year, resulting from post-tax profit of \$21m on gross sales of \$440m in 1978.

Pony production will continue to be concentrated at Ulsan, but it remains to be seen whether the new designs which Hyundai and its Italian design consultant Mr. Giorgio Giugiaro now have on the drawing board will be ready in time to go into production in the new plant. These designs centre around a slightly larger basic engine than the Pony's 1500 cc Colt equipment and seem most likely to result in a car designed to present a challenge in the Ford Cortina range. Later this year the Pony will also be available in a 1600 cc version.

One option which Mr. Chung has resisted, despite Government pressure, is to go into the small car market. It was even rumoured at one point that Government officials, following the administration's very active energy conservation policy, were preparing to liberalise (ie

reduce import tariffs to non-penal levels) the import of cars under 900 cc in order to apply pressure to the domestic manufacturer.

Mr. Chung dismisses such a possibility as nonsense. "It would simply flood the market with Japanese cars and that's the last thing the Government wants," he says. His own company's research has indicated, he says, that the Korean market, with its predominance of large families, is not right for a mini-car. The Pony is the smallest Hyundai intends to go and Mr. Chung says his view is supported by experience in the Japanese market, where small model designs have not been successful.

Of course there is always the possibility that one of the other manufacturers will choose to rush in where Hyundai fears to tread. Probably the most interesting development in the Korean motor industry in the last year was the entry of the Daewoo group, which took over the Korea Development Bank's 50 per cent stake in Saehan Motors and thus entered a joint venture with General Motors.

Daewoo, founded as recently as 1967, is one of the fastest-growing of the Korean conglomerates and last year recorded sales of \$2bn. It has a reputation as one of the brightest and toughest groups in Korea and is expected both by Government and its competitors to take Saehan into new and more adventurous fields involving the development of its own model as a rival to the Pony. Up to now Saehan has only assembled Opel and Chevrolet models with Japanese and German engines for the company's large range of buses and trucks.

Meanwhile Kia, which set out as a bicycle manufacturer and still has a strong line in Honda-licensed motor-cycles, concentrated its passenger production on the successful Brisa, manufactured under licence from Toyota Kogyo of Japan, where the car sells as the Mazda Familia. Kia, having taken over the Asia Motors bus-manufacturing company, is also an important manufacturer of commercial vehicles, but the 1980s should

see it, too, emerging as an independent car manufacturer. If the Korean motor industry is to meet its Government target of exporting 1.4m units in 1986 (more than 50 times the 1978 level) there will clearly have to be rapid expansion beyond that already publicly indicated by Hyundai.

It will be interesting to see where Korea will look for its motor industry technology in the future. Hyundai, in preparation for its new plant, has been talking to a number of major European manufacturers including Renault and Volkswagen, but Mr. Chung says these discussions have not been concluded. "It has still not been decided whether we need to have a partner at all," he says.

It is certain though that the new plant will rely heavily on foreign machinery imports and that it will be much more highly automated than Ulsan, where local management has struggled to get the man-hours rate for Pony production down from 60 to 30 per unit, which is still 12 man-hours short of the Japanese rate for a comparable model.

It is also certain that the investment will be heavy at a time when Hyundai must be relying heavily on the profits made from its assembly of knocked down kits of Ford models to offset losses on exported Ponies. Under an agreement with Government, Hyundai can import one Granada kit for every five Ponies exported.

The Granada sells for an astonishing \$28,000 in Korea, although more than half of this is tax. The Pony is now 95 per cent Korean-made, although this claim disguises the fact that many components are assembled from overseas kits or manufactured with licensed technology.

Meanwhile domestic demand, fuelled by the rapidly increasing wages of, among others, the Hyundai workers, will continue to boom, perhaps taking domestic demand to 2m units a year by 1981. This would indeed be a volume base from which the Koreans could make serious inroads into the world motor vehicle market.



The first merchant bank in Korea

A joint venture between leading Korean industrial corporations and banks, Lazard Brothers & Co., Limited and Barclays Bank International Limited

- Arrangement of offshore finance
- Short/medium-term lending
- Foreign exchange business
- Corporate financial advice

- Advice on negotiation and structuring of joint ventures
- Management and underwriting of stock and bond issues
- Investment trust management

Results at the end of our second full year of operations are:

BALANCE SHEET

As at December 31, 1978

ASSETS

Cash and deposits	5,416
Marketable securities	966
Beneficial certificates	3,709
Notes due	33,236
Loans in Won	6,341
Loans in foreign currency	2,139
Other assets	912
	51,809

LIABILITIES & EQUITY

Overdrafts with banks	2,664
Short-term notes payable	25,968
Won currency bonds	6,798
Foreign currency borrowings	2,264
Other liabilities	3,160
Total liabilities	41,854
Paid-in capital	8,364
Retained earnings	3,421
Total shareholders' equity	32,837

INCOME STATEMENT

For the years ended December 31

(In US\$ '000)

Income from lending	1,212	7,231
Fees and commissions	1,235	761
Profit from securities trading	577	249
Other income	460	271
	3,484	8,512
Administrative expenses	1,710	1,399
Income before tax	1,774	7,113
Provision for tax	1,389	646
Net profit after tax	3,864	1,478

Executive Directors:
Chairman & President: Jin Heung Kim
Exec. Vice President: Michael Bentley
Exec. Vice President: Hak Su Yun

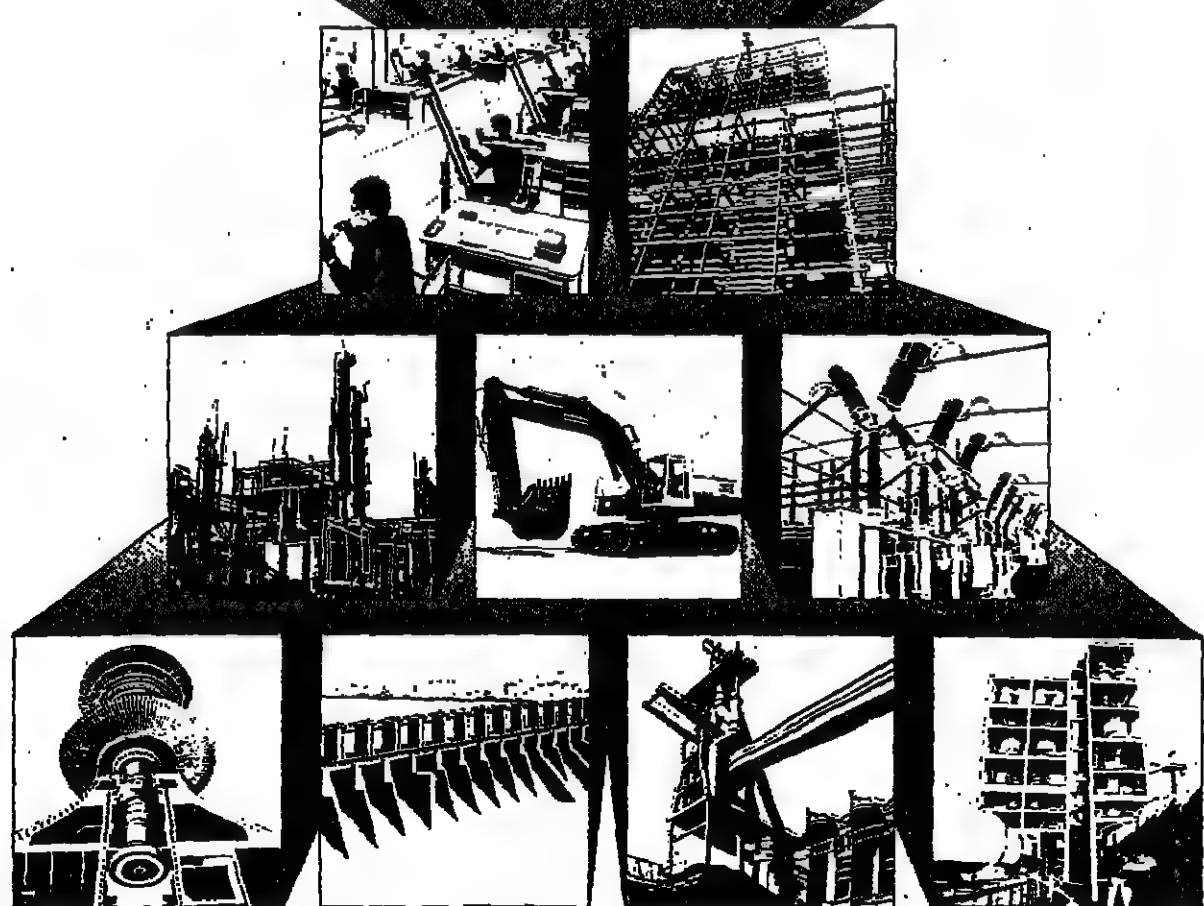
Non-Executive Directors:
Peter R. Codrill, Sung Hwan Hong
Gordon A. D. Thomson

KOREA MERCHANT BANKING CORPORATION

CPO Box 3983, Seoul, Korea
Telephone: 22-5181/5 Telex: KOMBANK K28579

HYUNDAI INTERNATIONAL INC.

AIMING IN MANY DIRECTIONS
TO ATTAIN BETTER LIFE GOALS



Pause a moment, if you will, and ponder the numberless things that make your life what it is. The many basic, indispensable conveniences people everywhere require for a more comfortable community, a more enjoyable place to live and work.

The people at Hyundai International are working overtime to make these a reality for everyone who sees our potential and seeks our assistance.

Hyundai International is well versed in the high-level technology it takes to turn out everything from complete power plants to multi-purpose heavy machinery.

Each branch of our activity is aimed at satisfying a specific need. And each contributes in its own way to reaching your goals for a fuller life.

MAIN PRODUCTS & ACTIVITIES

Iron and Steel Making Machinery/Power Generating Machinery/Chemical & Petrochemical Machinery/Cement Manufacturing Machinery/Paper & Pulp Making Machinery/Textile Machinery/Pollution Control Equipment/Desalination Machinery/Other Industrial Machinery/Heavy Construction Machinery/Agricultural Machinery/Material Handling Equipment/Air Conditioning Equipment/Machine Tools/Steel Structures/Automotive Parts/Castings and Forgings/Dredgers/Tug Boats/Barges and Other Special Purpose Boats/Shipping Business/Timber Development.

現代洋行
HYUNDAI INTERNATIONAL INC.

Head Office: San 2, Chaengdamdong, Kangnamku, Seoul, Korea C.P.O. Box: 1926 Seoul Tel: 36-9071/83
Plant Sales Dept: 56-9996/3 Telex: HIL 71361, 524422, 423345 Cable Address: HYUNDAI SEUL, KOREA

مكتبة النجف

Electronics

A challenge to Japan

NOWHERE IN South Korean industry is the sense of treading in Japanese footsteps more strongly felt than in the electronics business.

Korea's electronics companies began life in the late 1950s by providing cheap assembly bases for Japanese (and U.S.) kits. Since then they have moved into the middle ranges of sophisticated consumer electronics, offering a big challenge to their mentors in the manufacture of television, radios and low-price audio equipment.

The industry's export targets have also been considered in line with the rule of thumb theory that Korea's electronics is ten years behind Japan. In 1976 the Japanese exported \$9bn of electronic goods. In 1986, the Koreans are programmed to achieve the same figure.

Many in the industry, however, believe that it is too much to expect the electronics companies to be contributing 20 per cent of total Korean exports by 1986, let alone their record of averaging 37 per cent a year, growth between 1962 and 1977. Mr. Sung-Chan Park, president of Gold Star, the Lucky Group company which leads the Korean electronics industry, believes the comparison with Japan does not apply this time because the Korean population is three times as small, creating difficulties in advancing to crucial economies of scale, especially in audio products and components.

"I should say that the most optimistic projection would be for the industry's exports to grow to 10 per cent of the country's total or \$5bn by 1986, but you never know whether the Government might help us to do better. We shall certainly be aiming for their target," he says.

One thing the electronics companies urgently require of

the Government is the opening of what they believe will be floodgates in the domestic colour television market. Some in the industry are hopeful that the Government will relax its position and permit colour TV broadcasting later this year, although current political worries about stimulating consumer demand at a time of high inflation suggest this could be wishful thinking.

The Korean colour television industry, still only in its third year, has run into deep problems because of the recent decision by the U.S. to impose a quota of 289,000 Korean sets in the 17 months from February. This was a reaction to a pattern of export growth characteristic of Korean electronics: 1976: zero; 1977: 20,000 sets; 1978: 500,000 sets. The three Korean manufacturers (Gold Star, Samsung Electronics and Taihan Electric Wire) have an immediate capacity of 1.2m sets a year and could easily quadruple this level by transferring black and white set production lines to colour. Around 3m monochrome sets were produced in Korea last year. The Korean TV industry is already much bigger than Britain's, and if they can find the markets, Gold Star and Samsung will not be far from the capacity of Matsushita, the world market leader with 3.7m sets a year.

The quota blow to colour sales, which has reduced production this year to well under half capacity, has also come just when the industry is breaking through to a high level of localised production by manufacturing its own colour tubes. This summer, Gold Star, for example, will start up a 600,000 colour tube units per year facility at the vast Gumi electronics complex in the central part of the country. Samsung, reacting to U.S. developments,

has delayed its tube manufacturing plans, but will still be producing colour tubes in bulk later this year.

Dr. Wan Ilse Kim, recently appointed President of the Electronic Industries Association of Korea and one of the men closely involved in the original Government planning of the electronics offensive, is bitter about what he believes to be the major role played by Japanese offshore manufacturers in the U.S. in blocking Korean products. The Japanese U.S. quota is 1.75m sets a year — only because they got there first," says Dr. Kim. The U.S. is by far the Koreans' most important electronics market, taking 31 per cent of all output last year, compared with 40 per cent in home sales, 8 per cent to Japan and 1.5 per cent to the UK.

But the Korean manufacturers, true to form, are already well advanced in their plans to beat the Japanese at their own game. Mr. Park says he has virtually sewn up an agreement to assemble Korean colour TV sets inside the U.S. and outside the quota restrictions. He says he is open to offers from Europe for similar ventures, although Gold Star is caught in the licensing problem of the Telefunken PAL colour system. The U.S. facility could start operating later this year at a test-run rate of 100,000 sets a year to investigate the economies of the operation. He has had to agree, with much reluctance, to use U.S. picture tubes.

Likewise Samsung has had detailed talks with European interests, most productively with Germany and France. "We would be interested in co-operating on the basis of Korean manufacture and European design, marketing, know-how, sales and management, but if necessary we will assemble

in Europe too. I'm looking for offers," says Dr. Y. S. Chang, a key member of the Samsung managerial think tank and currently closely involved with electronics strategy. At \$18 ex-works, the export price of a 16-inch Korean colour set certainly has price on its side.

Television production is critical to Korea's consumer electronics industry, because it is the only substantial area where the major companies have moved to both international scales of production and a high level of domestically produced components.

This is a useful reminder of the youth and relative primitiveness of Korean electronics. That \$1.4bn of exports last year, for example, comprised 45 per cent of assembly-only goods whose components were shipped in and finished products shipped out by the 35 foreign-owned companies and 85 foreign-Korean joint venture companies which still play a major role in the industry. These companies are greatly outnumbered by the 590 pure Korean registered electronics companies, but many of these are small components manufacturers or subcontractors.

South Korea's balance of trade in electronics is, in fact, only just positive. In 1977, the country imported \$847m of electronic goods, against total exports of \$1.18bn. Manufacturers using a certain level of imported parts are required to re-export at least 80 per cent of their output.

Men like Dr. Kim and Government officials are confident that the reliance on foreign parts will rapidly decrease in the next two years as the big Korean companies scale up production of audio products in the same way as has happened with television output in the past three years.

Mr. Chang of Samsung believes that in the next five years,

the Korean industry will be busy filling the gap in low-price audio left behind by the Japanese. That means improving quality control (mainly by increasing automation), developing in-house manufacture of key components—some of which have been in madly short supply in Korea this year—and stepping up spending on research and development.

As for components, high on the Government's list of electronics priorities is the stimulation of the domestic manufacture of semi-conductors and integrated circuits, leading eventually to a capability in mini-computers. The Government has put up \$60m, alongside \$30m from the World Bank, to establish the Korea Institute of Electronics Technology at the Kumi industrial complex, where ten plants are either complete or under construction. Five for the manufacture of semi-conductors and five for other computer components.

Semi-conductors are already a big industry for Korea because of the presence of Motorola, Signetics and Fairchild in one of the country's export-free zones, where the U.S. and European companies can assemble their products and re-export without customs payments. The output of these companies accounted for virtually all the semi-conductor exports of last year (about 18 per cent of total electronics exports), and by 1986 semi-conductors exports should be worth \$2.28bn if all goes to plan.

By that time, however, it is intended that a large slice of these exports will be indigenous products of the Kumi companies, all of whom have joint venture or licensing agreements with established (mainly U.S.) manufacturers. At present, only Samsung has a full operating semi-conductor company, Samsung Semiconductor, established in 1974. This chiefly produces circuits for Samsung's electronic watch business and bipolar transistors.

By 1986, Dr. Kim believes that Korea will be exporting its first computer system. Other senior figures in the industry are less confident, but all believe the Korean companies will find a growing place in advanced electronics.

LEADING ELECTRONICS COMPANIES

	Output 1978 \$m	Exports 1978 \$m	Employees	Market share %
Gold Star (Lucky Group)	185.6	96.6	10,000	8
Samsung Electronics	170.3	98	9,000	7
Motorola Korea (U.S.-owned)	105	102	5,000	4.1
Tai Han Electric Wire	82	34	8,350	3.5
Signetics Korea (Philips)	71	71	3,010	3
Anam Industrial	70	68	4,500	3

Source: MCI (estimates)

COMPOSITION OF 1979 EXPORT TARGET (by value)		KOREAN ELECTRONICS OUTPUT AND EXPORTS			
	%	1978	1979	1981	1986 \$ current prices \$m
Semiconductors and integrated circuits	23	bn	bn	bn	bn
B/W television	12	0.94	1	1.52	4.44
Radios	14	0.64	0.7	1.09	3.16
Tape-recorders	9	0.21	0.34	1.7	3.44
Amplifiers	6	0.1	0.2	0.45	2.24
Transceivers	2.5	1.12	1.31	1.98	5.48
Colour TV	2.7	0.6	0.8	1.32	3.57
Components	14	1.34	1.8	2.86	8.37
Other	15.8				

Source: Electronics Industry Association of Korea.

SAEHAN MERCHANT BANKING CORPORATION

INTERNATIONAL AND DOMESTIC MERCHANT BANKING SERVICES TO KOREAN AND OVERSEAS COMPANIES

Shareholders

The Korea Development Bank Hill Samuel & Co. Limited
Banque Arabe Et Internationale D'Investissement
Korea Exchange Bank
The Industrial Bank of Japan Ltd.
The Long-Term Credit Bank of Japan Ltd.
Daewoo Securities Co. Ltd. Sambo Securities Co. Ltd.
The Nomura Securities Co. Ltd. Yamaichi Securities Co. Ltd.

Executive Directors

Wan Soo Han (President) F. J. Leishman (E.V.P.) J. B. Shim (E.V.P.)

Samkoo Building 70 Sokong-Dong, Chung-Ku, Seoul, Korea
Tel. No. 28-8283/8 Telex No. SAMBANK K24207

Construction

Overseas contracts soar

LAST YEAR, South Korean construction firms provided their country with an embarrassment of riches as the pace of their expansion overseas continued to outstrip all forecasts.

Less than a year ago, the Seoul Government was talking about overseas construction contracts worth around \$4bn in 1978 against \$2.5bn the previous year. In fact, the figure has turned out to be well in excess of \$8bn, and to support this massive overseas earnings operation, the Korean builders shipped out another 50,000 or so workers, taking the total to almost 100,000.

Given that the Korean main market, the Middle East (accounting for around 70 per cent of business), is generally considered to be in decline from the formidable building boom of the mid-1970s, this represented a remarkable performance. It did, however, cause problems. At a time when domestic inflation was being pushed upwards by a variety of cost and wage push factors, the unexpected increase in the money supply from foreign exchange earnings caused the Government to impose tight limits on companies' freedom to convert foreign earnings into local currency.

Although these limits have now been officially relaxed, partly in recognition of the liquidity difficulties they caused within some of Korea's biggest industrial enterprises—the spirit of the policy persists. The Koreans are being encouraged not to bring their remittances home, but to invest them in projects of their own. The construction companies are active. This policy reflects in turn the Government's desire to see large sections of the country's exports, whether visible or invisible, tied to agreements with raw materials rich countries. Thus Hyundai Construction still very much the biggest of the Korean building firms is negotiating a stake in Saudi Arabia's steel and aluminium industries by offering to contribute both capital and then operating personnel for the plant when it is complete.

This type of development makes sense from other points of view, too. The Koreans are well aware that the best times have indeed passed for the Middle East construction industry and that in future pure civil engineering operations related to infrastructure development will proceed at a more modest pace. This decline has obviously not been helped by instability in Iran, where Korean contractors have about 5 per cent of their business.

But this slowdown does not equally affect the more sophisticated end of the construction industry: the building of plant for the metals, energy, and chemical industries. Here, the Koreans know that they are at a disadvantage compared with their competitors from Europe and the U.S., who are called in at the beginning of such projects

for technical advice and whose specialist companies in such fields as turbine manufacture then take the high added-value portion of contracts.

Mr. C. W. Choi, chairman of the Samwhan building company and also president of the Construction Association of Korea, says there must now be a big campaign by the Koreans to identify themselves as "development partners" rather than competitors with both the suppliers of high technology and the countries where the projects are taking shape.

Even so, Mr. Choi's personal view is that last year's level of contracts cannot possibly be repeated in 1979, leading to the first decline in the pace of the industry's order-taking since it emerged as an international force five years ago. He predicts a 30 per cent downturn in both the overseas and domestic sectors this year.

The domestic sector, which accounts for roughly half of the Korean industry's total sales, is expected to slow down as a result of a tighter Government public spending policy this year and also because of a continued general decline in the private housing sector. This will only partially be compensated for by the still white-hot pace of investment in facilities for Korea's planned switch of emphasis away from light industries towards the heavy and chemical industries.

All these factors can be expected to work in favour of the bigger construction companies, 10 of which account for around half of the industry's turnover. The other 519 companies are mainly very small outfits, and the Government is putting further pressure on the rationalisation of the industry into larger units by its recent ban on licences for new construction enterprises.

Ambitions

There is no doubt, also, that these major construction companies are destined to play a much more central role in the growth of the Korean industrial economy in general by providing, in addition to their conventional civil engineering skills, the assembly component for Korea's ambitious programme of plant exports. At present, this is an area of only limited export success for Korean industry, and the value of export contracts secured last year actually fell \$161m from \$305m the year before.

The pace of domestic requirement is, however, picking up rapidly as a result of the industrialisation process, with the country's investment in new heavy plant forecast by the Korea Development Institute to quadruple (to about \$18bn) in the period 1987-91, compared with 1977-81.

Korea's strategy in the field of plant (by which is meant chiefly oil refining, steel, petrochemical, cement, fertiliser,

pulp and paper and electrical installations) is to resist the offers of foreign turnkey bidders for its domestic contracts, forcing high-technology foreigners to work alongside Korean companies in order to achieve a spin-off of know-how. Meanwhile, abroad, the Korean construction and heavy industry companies will increasingly be offering their services on either a straight sub-contract basis or in full-scale joint ventures with western or Japanese firms.

This means that the relationship between the big construction companies and their domestic engineering and heavy industry affiliates is of increasing importance as the Koreans move towards a position in the 1980s when they hope themselves to be bidding for foreign contracts on an independent turnkey basis.

For a company like Hyundai Construction, the links with the Hyundai group's heavy industry, engineering and steel fabrication activities are already strong and well used. Many steel structures for the Middle East have been knocked up by Hyundai Heavy Industries shops close to the same group's Ulsan shipyard.

According to Mr. W. J. Chang, the former military man who is now President of Hyundai Construction, this inter-family relationship, which even includes a shipping company combined with his own employees' high productivity, is already allowing Hyundai to undercut other Korean contractors by a steady 15 per cent. He is predicting an increase in Hyundai Construction's rate of orders this year from \$2bn in 1978 to \$2.4bn and says the company has already snapped up eight major contracts this year, with another 20 under negotiation.

But Hyundai Construction's leadership will not be retained automatically. Hyundai International split from the Hyundai group five years ago after a disagreement between Mr. I. Y. Chung, its chairman, and his elder brother, Mr. Y. Y. Chung, who started the Hyundai group and is still its chairman.

Hyundai International does not figure yet in the construction industry's top ten, but as an integrated manufacturer and assembler of heavy industrial projects it is being styled to capitalise on the general construction-heavy industry strategy already described. Likewise other major groups, such as Daewoo and Samsung, have linked construction with heavy industry activities, and a company like Samwhan, which started life in 1948 as a pure construction outfit, is today stressing the resources of its engineering affiliate. One construction firm, Kyungnam, has bought a small U.S. consultant engineering business in order to sharpen up its technological and planning capabilities.

The conglomerates are also in a position to use their rela-

tionships with foreign advanced technology companies formed by their heavy industry divisions as a bridgehead for similar co-operation on overseas and domestic plant contracts. Daewoo Heavy Industries has over 20 such links, Hyundai International lists more than 40, and such technology agreements are rapidly proliferating in fields as diverse as nuclear reactors, diesel engines and dredging equipment.

Whether the rest of the world construction industry should worry and refuse to co-operate with the Korean strategy, or whether it should see the availability of still relatively low-cost Korean partners with intensive if brief experience of some very big projects, is clearly going to be at matter of judgement in the advanced countries.

According to Mr. Chang, Korean labour costs (\$1100 per month for an overseas worker, against a national domestic industrial average of not much more than \$400) are still a good one-third below European costs, but another year of 15.6 per cent real wage inflation last year has already made the Korean worker uncompetitive with his rivals from the Philippines, Morocco and India.

Pressure

As Korean costs continue to rise sharply, clearly the competitive edge is harder to find, and the Koreans accept that after four very good years in the Middle East, they will increasingly have to sell on quality. So far, however, there is still no problem in luring Koreans to the inhospitable climate of the Arab world. Hyundai has a 95 per cent re-application rate from workers who have completed their 18-month contracts.

One factor which is changing, as a result of customer pressure, is the Koreans' willingness to purchase domestically available supplies and services. Their image of total self-sufficiency in the past has done harm to their standing with local traders. This self-sufficiency, however, is really a misnomer as the big companies already buy half their materials from third countries. Hyundai last year spent \$500m on such supplies—half of it in the U.K.

There is no doubt, also, that the Koreans will be looking increasingly to non-Middle East markets. At present, 10 per cent of the industry's overseas business is in the Far East, 4.5 per cent in Africa and 7.5 per cent in South America. To some extent, the Koreans are limited in attacking these developing country markets because they cannot afford the luxury of aid-linked trading or even the soft loans of their advanced competitors. The companies do not doubt, however, that their horizons, as they become more technology-intensive, will also become wider in terms of markets.

WELCOME TO KOREA



NEW DESTINATION IN THE ORIENT



Onward-bound orient clients can for few hours of flight time beyond Tokyo or Hong Kong and no additional air fare stop over in Korea for up to five days without a visa. This is time enough for the basic Seoul-Kyongju-Cheju Island itinerary and to get a feel for the pulse of the country.

For further information and sales materials, please contact the KNTC branch office nearest you:

- * New York (212) 688-7543/4
- * Los Angeles (213) 623-1226/7
- * Frankfurt 0611-288289
- * Paris 538-7123
- * Tokyo (03) 580-3941
- * Osaka (06) 245-5370
- * Fukuoka (092) 471-7174/5
- * Singapore 430441/2
- * London (01) 584-2267
- * Sydney 2902700
- * Hong Kong 3-662075
- * Hawaii (808) 946-9088
- * Toronto (416) 863-0796
- * Zurich 09-9180882

And please contact your travel agent or nearest Korean Air Lines sales offices.



KOREA National Tourism Corporation

198-1, Kwanghoon-dong, Chongno-ku, Seoul, Korea
Tel.: 70-7911/8 Telex: KOTOUR K28555

SOUTH KOREA XII

Shipping and shipbuilding

Sprint strategy a miscalculation

SOUTH KOREA'S shipbuilding industry represents, arguably, the gravest miscalculation so far by the country's industrial planners. The strategy to sprint within 15 years to second place in the world industry behind Japan—although still not necessarily unattainable—has resulted in a string of serious financial problems.

Two of the companies licensed to build important new plant, Koryo and Korea Shipbuilding and Engineering, found the strain of financing construction at a time of profound recession in their existing businesses too much and their part-complete facilities have now been passed over to the more secure financial strongholds of two of Korea's biggest conglomerates, the Samsung and Daewoo groups respectively.

Meanwhile, Hyundai Heavy Industries, which set the Korean industry on the road to international status, has had to cut its shipbuilding workforce from 30,000 to 20,000 in the last two years as it has struggled, in spite of highly competitive pricing to fill its huge docks which are capable in theory of swallowing 1.8m dwt of orders per year.

In 1978 Hyundai had to be satisfied with output of 29 vessels aggregating 693,000 dwt and its order book in mid-March comprised 33 vessels totalling 731,900 dwt.

During this difficult period, Hyundai has been able to draw strength from the rest of the group and the 10,000 men no longer employed in shipbuilding have been comfortably absorbed into other heavy industrial activities, such as steel fabrication for land construction work, in the vicinity of the Ulsan yard. In Korea, there is no shortage of demand for experienced steelworkers and outfitters.

Mr. C. H. Cho, the Hyundai Corporation director responsible for ship sales, also says the yard has struggled resolutely to maintain profit margins in its tenders for new business where Hyundai has frequently undercut its competitors by as much as one-third and still undercuts Japan by 10 per cent. But he admits that in practice the margin frequently has vanished under the tide of rising costs once the contract has been started.

No financial figures are published for Hyundai Heavy Industries, which is a part of the Hyundai group not yet quoted on the Seoul stock exchange.

Meanwhile, Hyundai continues to try to improve its range of technical skills and versatility as a shipbuilder. About 20 engineers were sent for training overseas last year as part of the yard's build-up to offering its services as a builder of liquid natural gas carriers in association with Gaz-Transport and Technigaz. So far, however, the yard has not won an order for this most sophisticated type of merchant ship.

On a more mundane level, the shipyard, like its neighbouring Hyundai Mipo ship repair yard, is also working hard at improving quality, especially on the outfitting side. Workforces at both yards have been criticised by Western equipment suppliers over the quality of on-site installations.

Mr. Moon-Doh Chung, president of Mipo, believes his yard has now established firm quality control on basic repair jobs. "You have to remember, we are still new, so that for certain complicated works we may require a little more improvement," he says. In spite of that, Mipo operated at 80 per cent capacity last year—a very reasonable performance in the circumstances of the market—and is confident of lifting last year's gross turnover of \$50m by 30 per cent in 1979.

Established

Hyundai's shipbuilding yard, six years old last month, is by Korean standards a venerable old-timer in the industry and certainly well established in a way not true of the country's other large-scale shipbuilding facilities at Kojé and Okpo islands.

The Kojé yard is now practically complete, requiring only construction of the workers' accommodation—standard at large industrial sites in South Korea.

Kojé yard began as a two-stage project involving construction of two docks, one of 100,000 dwt or Panamax-size capacity and a second able to hold ships up to 500,000 dwt. The project then was the

work of the Koryo company, but soaring construction costs created cash-flow problems and in 1977 the Samsung group, Korea's oldest and perhaps strongest large industrial and trading group, took over the project as a substitute for its own plan to build a mainland shipyard.

Early last year, Samsung signed an agreement with Burmeister and Wain of Denmark and IHI of Japan for technical assistance in running the yard and in training workers. About 1,000 men are now on site and at work on the company's first contracts.

These orders are from Indonesia, with which Korea has close ties, for two 15,000 dwt oil products carriers and the yard has also won an order recently for a 20,000 dwt products carrier from Pan Korea shipping.

Mr. Eun Taik Lee, President of Samsung Shipbuilding, admits frankly that the \$20m contract figure for the Indonesian deal is a loss-making figure. "We will have big losses with these ships, but we have to do it because as newcomers to the industry we must gain experience," he adds that other deals now under negotiation with Australia and Northern Europe have been pitched closer to profitability.

Mr. Woo Dong Cho, chairman of the shipbuilding company and of the parent Samsung Heavy Industries, says the company has no regrets about entering shipbuilding, which he is confident is a strategic advance of both Korea and Samsung. However, the company has gone back to the drawing board on the second stage of the yard, originally due for completion in 1980.

It could still emerge as a 500,000 dwt VLCC dock (with the perhaps more useful possibility of building two Panamax carriers side by side), but it is equally likely to turn out to be the size of the existing dock. "We have no firm commitments," Mr. Lee says.

Potentially the most exciting venture in Korea shipbuilding because the least defined, is the Okpo island yard, designed by Korea Shipbuilding and Engineering to take that long-established company into the big league of world shipbuilders

THE MAJOR SHIPYARDS			
Ownership	Nominal capacity	Prospects	
Hyundai Heavy Industries	Unquoted company, part of Hyundai group. Sales handled by Hyundai Corporation	1.6m dwt per year	Orderbook of 731,900 dwt
Korea Shipbuilding and Engineering (KSEC)	Long-established independent company	700,000 dwt per year	Orderbook of six months' work
Daewoo Shipbuilding and Heavy Machinery	Daewoo conglomerate took over Okpo island yard construction from KSEC last year. Due for completion 1980.	Largest ship-building dock in world with 1.25m dwt capacity	Uncertain, but likely to involve heavy non-marine content
Samsung Shipbuilding	Samsung conglomerate took over Kojé Island yard project from Koryo. Almost complete	Single 100,000 dwt dock, plus plan for second dock of undetermined size	Orders for four products carriers

with a giant 1.25m dwt construction dock.

The burden proved too great for the limited means of KSEC, already suffering from the industry's slump, and the Government spent some time looking for an alternative operator. Both Samsung and Hyundai looked at Okpo and decided it was not viable only to find that their arch-rival, the younger and some say more ambitious Daewoo group, was prepared to take it on.

Formally, the ownership is shared between Daewoo (51 per cent) and the Korea Development Bank (49 per cent), but it would be normal for the bank's share to be sold to private investors once the project is established. Daewoo says it expects its own investment to amount to \$400m and the bank has put up \$140m as paid-in capital for what is in effect an interest-free loan to cover Daewoo's basic construction costs until 1981. Most of the rest of the cash is coming in the form of guaranteed loans

associated with foreign equipment purchases.

Characteristically, Mr. Kim Woo Choong, 41, chairman and founder of the Daewoo group, has chosen a finance man to head the new venture. Mr. In-Kin Hong, president of the recently titled Daewoo Shipbuilding and Heavy Machinery, spent 16 years with the Korean Finance Ministry, and via the bridgehead of an economics refresher course at Harvard, joined Daewoo in 1977 to run its Orient Securities affiliate.

He took up his present job five months ago and is the same age as Mr. Kim. Last year, the Daewoo group had exports of \$850m and it intends to boost this figure to \$1.3bn this year.

Okpo will not contribute to exports in 1979. The takeover process has delayed construction work and the basic shipyard facilities, designed by A and P Appleford of the UK, now will not be complete until the end of 1980. Daewoo Development, the group's con-

struction company, has also taken over site operations at Okpo.

By 1982, Mr. Hong says that Okpo, now a fishing village, will have a population of 100,000 and his company a workforce of 20,000 Koreans. He has already started to recruit and Daewoo will shortly open its training school at Okpo to create 1,200 skilled men a year. "The men at Okpo will be the elite and they will have the most comfortable and hospitable environment possible," he says.

But the real question is: what will Okpo build, given that the 1.25m dwt tanker, which looked a certainty when the yard was conceived pre-1973, is still no more than a fragment of the wider shipowners' imagination?

For a start, Mr. Hong says, the workforce will engage in the structural steelwork and crane construction necessary to equip Okpo itself. It will then become the company's answer to Changwon.

This is hardly a modest statement as Changwon is the heart of South Korea's heavy industrial future—a site for 191 heavy machinery works still being carved out on a 12.5m square metres site 30 km inland from the major port of Busan.

Mr. Hong says Daewoo will build on its existing technical agreements with such companies as Brown Boveri of Switzerland, IIT and Babcock to produce a wide range of heavy industrial plant and equipment, using the huge concrete dock as a steel fabrication yard. As demand emerges it will also build ships, but it is important to note that so far the company has not signed any technical agreement with a shipbuilder.

The uncertainty over Okpo's eventual status in the pure shipbuilding industry and of Samsung Shipbuilding's second phase injects a large measure of uncertainty into South Korea's future shipbuilding capacity, still officially intended to increase to 4.25m grt per year by 1981, compared with 3.7m grt pre-Okpo and Samsung.

That 4.25m figure is what has given the OECD shipbuilding working party such anxiety in the past two years because it represents about one third of the total volume of orders fore-

KOREAN SHIPBUILDING: OUTPUT AND PROJECTIONS

(gross registered tons in 000s)				
	1976	1978	1986	1991
Construction for domestic owners	50	158*	555	1,012
Ship exports	634	618*	1,548	3,125
Total ship output	684	776*	2,103	4,138
(% share of world market)	1.9	3.4	6	7.5

Sources: Ministry of Commerce and Industry (1976-78 figures) Korea Development Institute (forecasts). * Provisional.

cast for 1980-81. In practice, for the reasons suggested above, real capacity in terms of available workforce is unlikely to reach 3m grt in that year, although the Koreans are obviously ready to spring when the market turns. Companies such as Daewoo and Samsung have no desire to become major shipbuilders if it means losing a lot of money.

Meanwhile, the Government is doing what it can to help. It has improved terms for export credit from 75 per cent to 85 per cent. Repayment periods are usually between five and 10 years and interest rates in line with the international level for the industry at 7 to 8 per cent. There are also plans to subsidise the price of steel plate, the industry's main raw material.

Under the terms of the fourth shipbuilding promotion plan for 1979-80, recently announced, \$254m is to be made available to finance this policy and the Government expects this to result in orders for 213,497 grt of vessels, of which 186,000 grt will be ocean-going types. Under the plan, Hyundai expects to get 11 vessels totalling 133,590, KSEC two at 34,584 and Samsung three small vessels totalling 6,050 grt. The rest will go to the country's six medium-sized yards (headed by Daedong and Daehae) and its 111 small yards.

Another target is to increase the localisation ratio of ship construction materials from its present level of not much more than 50 per cent to 80 per cent by 1981. The recent opening of Hyundai's marine engine plant will be a big contributing factor in this process.

There is one other important factor working in favour of South Korea's shipyards—the growth of the country's own merchant navy.

As the table shows, this has expanded steadily and is expected to reach 6m grt by 1991—roughly the size of the fleet now registered in Sweden. South Korea has a strong force of merchant seamen—34,000 men—of whom only half now serve on Korean vessels.

Although South Korean shipbuilding companies, like those in many other countries, got into widespread financial difficulties last year, necessitating a \$80m Government injection to finance debt re-scheduling, the Government is confident that by rationalising the 71 ocean-going shipping lines and by carefully financing expansion of the companies' container-shipping fleet, the industry will have a secure base for the future.

South Korean vessels already carry more than 45 per cent of the country's total seaborne trade, but the share for liner cargoes is only about 10 per cent, which resulted in a head-on clash between South Korea and the Far East Freight Conference last year when the conference refused to allow Choyung to join Korea Shipping Corporation in its membership.

Eventually, the Koreans won and Government plans call for the ordering of another three container ships this year to take the national fleet to the size necessary for a 40 per cent liner trades share by 1981.

At the end of 1978, Korea had 42 container-carrying vessels (full or part-container) totalling 169,000 grt. The fleet is also comparatively old, with 38 per cent of the 497 vessels over 45 years old, which should also produce more business for the Korean shipyards, where owners are financially induced to build at least one third of their requirements.

HANYANG TEAMWORK BUILDS IT BETTER

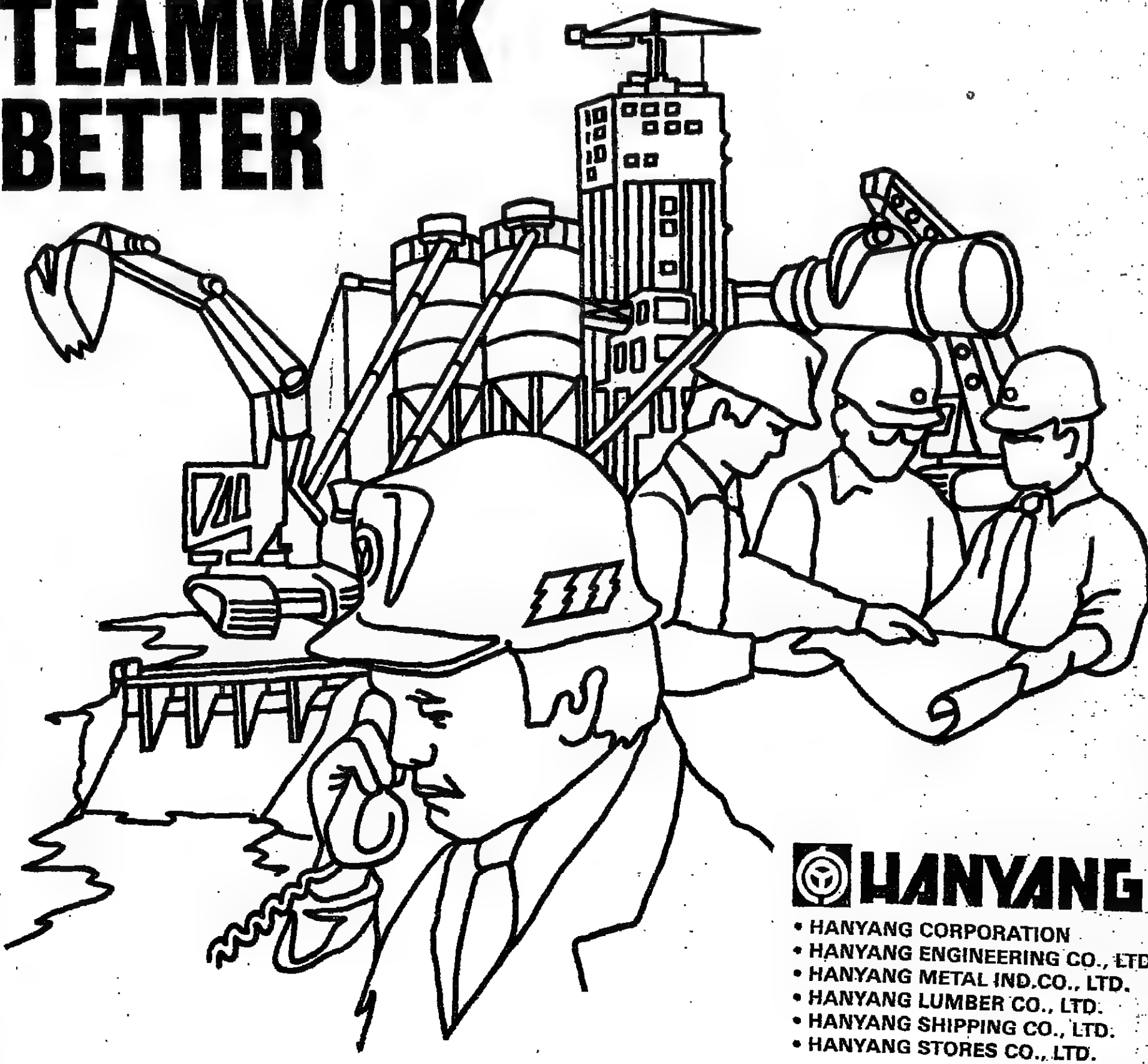
Hanyang teamwork guarantees you the very best in everything that a general contractor can provide—in housing and construction, in engineering, in civil works projects, in electrical and mechanical projects, in environmental protection, in shipping and in a wide range of other programs. The six member companies of the Hanyang Group coordinate efforts in a way you've probably never seen done before.

Large scale housing projects throughout Korea and the Middle East testify to what Hanyang teamwork can provide for you in amazingly expert, economical, speedy and efficient production and construction.

So look into Hanyang and see how far a lot of teamwork effort can go for you.



Young-Dong Apartment Complex in Seoul, Korea, constructed by Hanyang, with a view of bridge under construction.



HANYANG

- HANYANG CORPORATION
- HANYANG ENGINEERING CO., LTD.
- HANYANG METAL IND. CO., LTD.
- HANYANG LUMBER CO., LTD.
- HANYANG SHIPPING CO., LTD.
- HANYANG STORES CO., LTD.

HEAD OFFICE: C.P.O. BOX 6102, SEOUL, KOREA. TEL: HYCON K2642, 2365. KUWAIT BRANCH: TEL: HANYANG 317/27. RIYADH BRANCH: TEL: 270016 HYRHSJ. JEDDAH BRANCH: TEL: 501022. HARETH SJ. DAMMAM BRANCH: TEL: 601105 DHOTEL SJ. LONDON BRANCH: TEL: 298331 HANYANG. NEW YORK BRANCH: TEL: RCA 238513 HYNYL. ABU DHABI OFFICE: TEL: 3475 HYAUHEM.

مكاتب العمل

Grievances in the public service: By Philip Bassett

Why civil servants strike

THE STRIKE of 530,000 white-collar civil servants called for today underlines a major handicap facing the British Government in the run-up to the General Election: the State's direct employees are throwing the very machinery of Government into considerable disarray.

Some key Government computer centres have been closed down for five weeks; the Government has been forced to take the drastic steps of introducing emergency legislation in an attempt to re-open the Scottish courts and of suspending civil servants who have refused to do work normally done by those a reluctance to strike.

In meetings at the end of last week Ministers thought they had all but reached a pay settlement with the majority of the civil servants unions by managing to isolate the two largest unions which have spearheaded the selective strikes which have thrown the machinery of Government into such disarray.

But the meetings came too late for today's strike to be called off, though by publicising the offer of 9 per cent now, with half the rest of the rises due from a comparability study to be paid next August and the remainder from March 31 next year, Ministers obviously hoped to spike the action.

Long term

A speedy settlement is in doubt because of some aspects of the offer and the way it has been made. The long term cost of forcing a split in the unions may also be severe in terms of the future of industrial relations in the Service.

There are no legal restrictions on the right of civil servants to strike, though career pressures and their traditional conservatism, particularly among older staff, have created a reluctance to strike.

Such widespread action by workers traditionally associated with loyalty and ineffectual trade unionism rather than militancy is embarrassing enough for the Government.

Further embarrassment arises from the fact that the civil servants are pressing for pay comparability, the principle that has been used to pacify groups such as the local authority and health service annual workers, the nurses and the ambulance men. Most embarrassing of all for a Government committed to as yet unspecified comparability rises for those groups is that the increases due on the basis of the findings of the Civil Service's Pay Research Unit (PRU) comparability studies are so large.

Private sector

Both unions and Ministers admit that some grades of civil servant can expect little or nothing extra as a result of comparability studies, meaning a comparison of their pay with that of people doing similar jobs in private industry.

But the unions do estimate that rises of 20-25 per cent will become due for 3,300 cleaners, for example; 25-30 per cent for the 76,600 clerical assistants; 25-33 per cent for the 89,600 clerical officers; and 26-36 per cent for 47,200 middle-ranking executive officers.

Senior administration staff, about 6,200 up to the rank of Assistant Secretary, would be entitled to rises of 40-50 per cent.

The unions claim that the figures clearly show how the private sector has got around pay limits imposed by the Government's incomes policy in the past. The Society of Civil and Public Servants, which represents executive officers and has been most eager for action, estimates that under Stage One of the Callaghan Government's pay policies staff in similar jobs in the private sector received

above average pay increase of 54.9, compared with the 53.2 Civil Service increase; 65.05 compared with 52.08 under Stage Two; and 16 per cent compared with 9.5 per cent under Stage Three.

The PRU system was introduced in 1956 to take Civil Service pay out of the political arena. Detailed job-for-job comparisons are made between Civil Service pay rates and rates in a representative sample of public and private sector companies.

Very broadly, the clerical officer and assistant grades compare with office clerical staff, the executive officer grades with lower to middle management, and the grades of Principal, Senior Principal and Assistant Secretary with higher middle and more senior management.

The three top administrative grades of Under Secretary, Deputy Secretary and finally Permanent Secretary are not covered by the system at all, but are examined by the Top Salaries Review Board.

Reports on the PRU findings are passed to the Civil Service Department and the unions, and an elaborate system of evaluation takes place. Negotiation then determines how precisely to take account of elements such as company bonus pay-

ments, meal allowances, and company cars.

The system has been criticised for not putting enough value on the considerable advantage of index-linked pensions and job security enjoyed by civil servants. Their pay is adjusted in three ways to take account of pensions. Male civil servants pay a 14 per cent levy for family benefits. PRU settlements are reduced by an amount equivalent to that paid by those in comparable jobs elsewhere as assessed by the PRU; and a further deduction, based on an assessment by the Government Actuary, is made to take account of differences, including index-linking, between civil service and other pension schemes.

In the last PRU settlement, before it was suspended in 1975 at a time of pay controls, the effect of these calculations was to reduce pay rates by about 7 per cent, of which 13 per cent was the Government Actuary's assessment of the value of pension privileges.

Critics argued that as the rate of inflation had risen to 27 per cent that valuation was far in excess of the unions, which are now negotiating on the basis of the new as yet undisclosed valuation of the Government Actuary, are wary of talking about such easily opened wounds.

Job security is more generally regarded as unquantifiable, though for many workers it is at least a possibility—and for white-collar staff particularly so with the advance of the industrial use of microprocessors—it is nevertheless important.

Recruitment to the Service, particularly the clerical and executive grades, has been seen as an economic barometer because of the job security offered though the staff cuts in recent years and the pattern of Civil Service pay may have reduced the value of security. In 1973, under a Conservative pay policy, 12.8 per cent of one of the most valuable grades, the clerical officers, left a Service. After a special settlement to

correct pay policy anomalies, the proportion fell sharply to 7.4 per cent in 1976. The Callaghan Government's series of pay restrictions has reversed the trend, with 11.5 per cent leaving last year.

The PRU system has in fact never sat easily with wage controls. It is based on catching up with the private sector, which invariably finds ways of evading norms more rigidly applied in the public sector. So once the controls are eased, the PRU shows large rises to be due.

Disputes over pay have left permanent scars on the Service's industrial relations. Selective and limited strikes in 1973 led to the establishment of a study group called the Wider Issues Review Team which had the co-operation of the Civil Service unions to examine the "considerable unrest" in the Service.

The team's report in 1975 pointed out that the character of the Service had changed: "Other jobs have become attractive and more widely available to those who meet the Service's recruitment standards, and today the very much larger number of executive officer entrants do not regard the Civil Service or themselves as very special."

Unprecedented

The Government's original offer, tabled a week ago, of 7 per cent stirred even those moderate unions which had been holding back from action into anger. Even the First Division Association, which represents 10,000 senior civil servants, some up to the rank of under-secretary, took the unprecedented step of deciding to advise their members to take part in today's action in a move which deeply disturbed Ministers.

The two unions which have led the pay fight, the Civil and Public Services Association, which represents about 118,000

Civil Service clerical staff, and the Society of Civil and Public Servants, representing 105,000 staff 65 per cent of whom are executive grade, said there was no basis for settlement in the new offer.

The FDA, the Institution of Professional Civil Servants and the Association of Government Supervisors and Radio Officers are now prepared to recommend acceptance. But the unions with a greater number of lower paid members and lower rises due from PRU like the Civil Service Union and the Inland Revenue Staff Federation are more sceptical, and acceptance of the offer even by some of the moderate unions is by no means secure.

Long-term damage to the machinery of Government done by the strike could be severe. The CPSA and the SCPS estimate that so far their campaign of selective strikes, aimed mainly at disrupting cash flow to the Government and to private industry, has halted payments totalling £960m (a figure that the Government disputes). All company searches and new company registrations have been halted. Payments to defence contractors, VAT repayments, farm subsidies, university and industry grants,

repayment of National Savings Bonds and the issue of colliage have all been stopped.

Scottish courts have been closed down. Foreign Office and GCHQ Cheltenham communications halted, RAF maintenance work disrupted, and driving tests cancelled.

The VAT computer centre at Southend has been closed down for five weeks halting the processing of VAT returns. According to Mr. Denis Davies, Treasury Minister, it has held up VAT repayments of £240m. The unions say the computer has to operate for 24 hours a day, seven days a week, in order to deal with day-to-day work. There is no computer time available to deal with the mounting backlog with any urgency, so that the computer may never catch up with the work lost.

The effectiveness of union action has stemmed partly from the growth of Civil Service work, and partly from the increasing use of computers in the Service. As legislation has grown more detailed and complicated, more staff has been needed to deal with it. In the past eight years, despite staff cuts and the closing of 5,000 museum staff, 7,300 Civil Aviation Authority staff and others, the number of

non-industrial civil servants has risen from 498,000 in 1970 to 567,251 in April last year.

In 1970 there were 106 major administrative computers in the Service. Today the number has all but doubled to about 200. About 14,000 civil servants are engaged in computer work, though the unions have been able to achieve the effects they wanted merely by pulling out some of the 1,800 operations staff who throw the switches. At the Ministry of Defence computer at Liverpool, for example, which is responsible for the payment of all MoD central contracts to industry only eight were called out.

Both unions and the Civil Service Department agree that many of the industrial relations problems pointed out in the Wider Issues Review Team's report in 1975 have in fact been dealt with satisfactorily. But the present strikes confirm that the report's central finding still holds good: "Pay has been the single most important cause of discontent in the Civil Service—there remains a deep and growing anxiety about the future of Civil Service pay. The most important thing for the well-being of the Service is to keep its pay right."

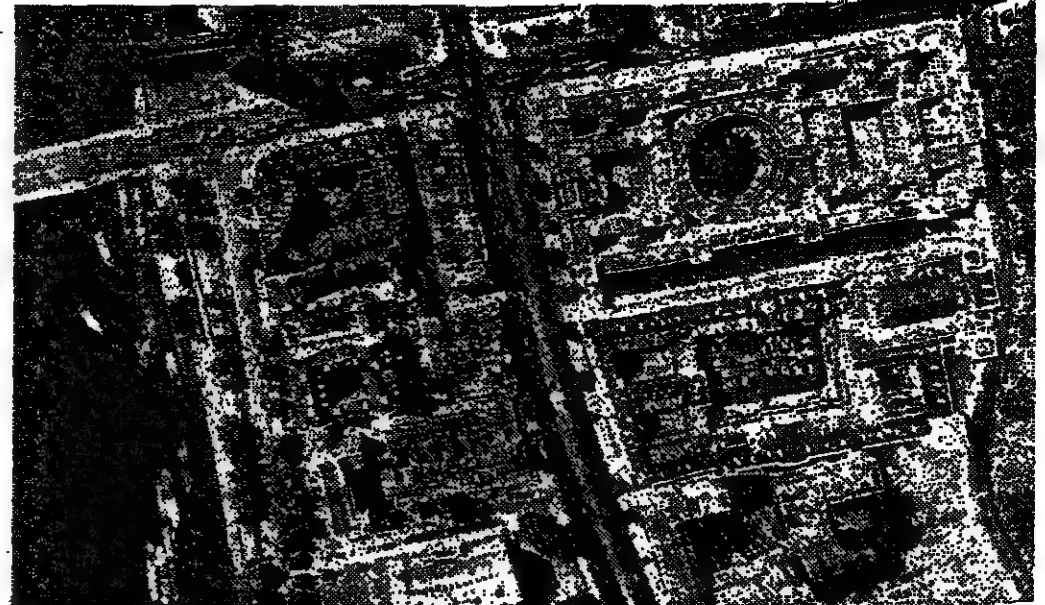
representatives of PROS, EGP and PLAN. Room 6, 4.15 pm.

COMPANY RESULTS

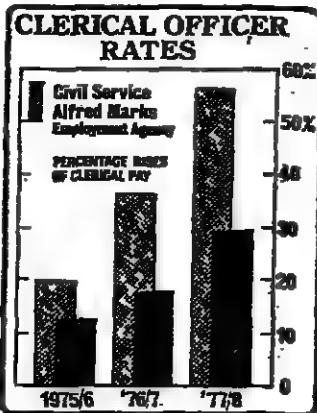
Final dividends: H. Brammer and Co. Erith and Co. Freemans (London SW9). I. and J. Hyman. Thomas Jordan. KCA International. C. F. Lovell and Co. Low and Bonar Group. Macfarlane Group (Glasgow). Mersey Docks and Harbour Co. Ocean Transport and Trading. Queens Moat Houses. Rockit and Colman. Interim dividends: Scottish Metropolitan Property Company.

COMPANY MEETINGS

See Financial Diary on page 8.



An unusual view of Whitehall, headquarters of a British Civil Service.



Permanent Secretary are not covered by the system at all, but are examined by the Top Salaries Review Board.

Reports on the PRU findings are passed to the Civil Service Department and the unions, and an elaborate system of evaluation takes place. Negotiation then determines how precisely to take account of elements such as company bonus pay-

Letters to the Editor

Buying on tick

From Lord Balogh.

Sir—Samuel Brittan (March 29) ridicules the economists who pay attention to the current balance of payments. Does he not in his private life differentiate between income and borrowing? True enough, if the borrowing results in an offsetting increase in productive capacity, it is advantageous. But can he really maintain that Britain, as a country, has lately done so rather than buying foreign durable (mainly consumption) goods on tick?

Thomas Balogh.
Balliol College,
Oxford.

Problem solved

From Mr. J. C. Koeune.

Sir—Hasn't the "unsolved theoretical problem" that Samuel Brittan uncovered on March 8—"Hopes, risks and a bit of theology"—already been raised and solved by Professor Robert Mundell?

In his "Capital mobility and stabilisation policy under fixed and flexible exchange rates" you will find, I think, "some rigorous professional discussion of these abstruse matters." Here's a sample quotation: "Assume an increase in Government spending financed by Government borrowing. The increased spending creates an excess demand for goods and tends to raise income. But this would increase the demand for money, raise interest rates, attract a capital inflow, and appreciate the exchange rate, which in turn would have a depressing effect on income. In fact, therefore, the negative effect on income of exchange rate appreciation has to offset exactly the positive multiple effect on income of the original increase in Government spending..." Fiscal policy thus completely loses its force as a domestic stabiliser when the exchange rate is allowed to fluctuate and the money supply is held constant.

Jean-Claude Koeune.
53 Parklane, 1980 Terouren, Belgium.

Landlord and tenant

From the Press Officer.

Small Landlords' Association.

Sir—On March 26 "Justina" rehearsed the sad story of the council tenant who lost his right to purchase his council house for one-fifth below its market value.

ing an impossible relationship with a tenant sells out in desperation and despair. Sometimes the tenant will deliberately aggravate that relationship in the hope of getting the property off the landlord cheaply.

All this arises because the Rent Act bestows indefinite security upon the tenant and his children and grandchildren and compounds this with un-economic rents. So called "fair" rents cover about 20 per cent of true costs. Sales of "fair rented" dwellings to sitting tenants are usually at about one-third of the true value of the property.

Supposing it was the other way about, supposing the tenant instead of paying 80 per cent less than economic rent had to pay 80 per cent more. Supposing it was the tenant who was bonded indefinitely to the landlord and could only sever the tenancy agreement by paying the landlord two-thirds of the value of the property.

Parliament in general and the Labour Party in particular would be jumping up and down. But with the landlord in that position the Labour Party not only seeks to justify the Rent Act but intends to make it even more onerous upon the landlord.

Meanwhile, of course, landlords fortunate enough to get vacant possession either to get rid of or to let outside the Rent Act through the loopholes of licences, holiday lets and company lets. Reprehensible abuses must be stopped. It does not see that far from being abuses these loopholes are the only way the private landlord can retain his sanity and the value of his property.

G. F. Cutting.
Small Landlords' Association,
7 Rosedene Avenue,
Streatham.

they should at least guarantee payment of the sum insured.

Peter R. James.
102, Insley Gardens,
Hucclecote, Gloucester.

Civil Service pensions

From the Managing Director, House Information Services.

Sir—Civil Servants, in rejecting the Government's pay offer, keep very quiet about their indexed pensions which we all know will ruin the nation eventually. The private sector—to which they are always referring on matters of "comparability"—must find the money for them as long as it can while understanding and resenting the prognosis.

A. Barrie.
1, Cresswell Park, Blackheath.

Paying the piper

From Mr. J. Towler.

Sir—It is to be hoped that John Cherrington's sensible stance towards the Common Agricultural Policy (Lombard, March 27) and the European Economic Community will rub off on to the Conservative Party.

Although recent speeches by Shadow Ministers John Nott and John Biffen suggest that there are seeds of a common sense approach towards the EEC, there is still a great deal of ground to be covered. For far too long Tory attitudes on Europe have been ambiguous and, at times, distinctly "wet."

Moreover, as Britain is set to become the largest net contributor to the EEC budget, we would do well to heed the adage that "he who pays the piper calls the tune."

James Towler.
25 Moseley Wood Lane,
Cookridge, Leeds.

Gambling and hedging

From the Managing Director, Commodity Analysis.

Sir—Mr. A. H. Hermann—your Legal Correspondent—in his otherwise excellent article on commodity dealing under the heading "Business and the Courts" (March 29) appears to have made some erroneous statements based on a misunderstanding of the difference between "futures" and "forward" physical contracts, and to have spoilt a rather well written, clearly described article by adding his personal note on the ethics and economics of commodity trading.

The purchase, sale and transshipment of raw materials around the world is normally undertaken by merchants who from time immemorial have been criticised by either buyer or seller because prices are too high or too low and that they have profited at the expense of the commodity. Nevertheless their function is necessary to conduct an ordered and smooth flow of trade. By necessity they have to buy and sell to and from each other. Very often the number of merchants involved between the original seller and the ultimate consumer may be numerous and if the delivery period is some time in advance they have to enter into forward contracts. These are normally described as "forward physical contracts" with their ultimate fulfilment being by a payment

for, and the delivery of, the goods. Sometimes if there are a number of people involved it is known as a "chain" of transactions.

Mr. Hermann states that there "is the question of whether commodity futures of this type should be treated as real contracts of sale." It is important to note that these transactions are not "futures".

Futures contracts are identical in quantity and quality as traded on futures exchange. The purchase and sale of futures contracts can be matched instantaneously and settlement can be made by the payment of differences. The fulfilment of the obligations of a futures contract (either the payment of the differences or the delivery of goods) is normally undertaken by a clearing house, whereas the fulfilment of the obligations of a forward physical contract are undertaken by the principals themselves. In referring to two types of commodity deals, as Mr. Hermann puts it, "the supply on one hand and the gambling on the other" he seems to have become confused between futures and forward contracts.

The second point with which I would take issue is that he seems to be taking some sort of moral stance in his last sentence when he states "a fresh look at the commodity trade might prove useful to consumers and traders alike." I would like to point out that this is a subject which socially and economically has been taking issue for very many years and as recently as May 1977 there was printed by the House of Lords the Minutes of the Proceedings of the Select Committee on Commodity Prices which investigated the issue at great length and with which I suggest Mr. Hermann makes himself familiar as it dispelled a number of the clichés normally associated with commodities—namely the differences between speculative gambling and hedging.

D. M. Anderson.
Commodity Analysis,
37-39 St. Andrews Hill, ECA

Balanced views

From the Managing Director, Executive Search.

Sir—During the damaging strikes we have suffered over the past few months, the trade union viewpoint has been thrust at us in the media by members of the TUC, trade union leaders, shop stewards and even picketing strikers. All those not so represented, and each one a loser, have not been heard in the same proportion.

Why cannot the CBI, the Institute of Directors, chairman and managing directors, even individual managers, find a way of matching this presentation, speaking up to put over their views of the national interest. Let people make up their minds on the basis of fair and equal representation in the media.

J. M. Reid.
Executive Search,
8a, Symonds Street,
Sloane Square, SW3.

Today's Events

GENERAL

Mrs. Shirley Williams, Education Minister, speaks at Association of Professional, Executive, Clerical and Computer Staffs conference, Blackpool.

Herr Andreas von Baulow, West German Defence Minister, talks in London with British counterpart on security and alliance policy.

OVERSEAS

EEC Foreign Ministers two-day meeting in Luxembourg to discuss international trade liberalisation (GATT).

EEC Finance Ministers meet in Luxembourg.

President Begin of Israel visits President Sadat of Egypt in Cairo.

OFFICIAL STATISTICS

Final February figures for retail sales; hire purchase and other instalment credit business for February, published by Department of Trade.

PARLIAMENTARY BUSINESS

House of Commons: Representation of the People Bill; Arbitration Bill (Lords), remaining stages. Crown Agents Bill, remaining stages. Consents to Prosecutions Bill, remaining stages. Pneumoconiosis, etc. (Workers' Compensation) Bill. House of Lords: Industry Bill (Motion), third reading. Nurses, Midwives and Health Visitors Bill, third reading. Banking Bill, remaining stages. Estate Agents Bill, remaining stages. Independent Broadcasting Authority Bill, second reading. Air Navigation Order: Carriage by Air Order. Select Committee: Expenditure: Education, Arts and Home Office Sub-committee. Subject: Women and Penal System. Witnesses: Baroness Vickers and

representatives of PROS, EGP and PLAN. Room 6, 4.15 pm.

COMPANY RESULTS

Final dividends: H. Brammer and Co. Erith and Co. Freemans (London SW9). I. and J. Hyman. Thomas Jordan. KCA International. C. F. Lovell and Co. Low and Bonar Group. Macfarlane Group (Glasgow). Mersey Docks and Harbour Co. Ocean Transport and Trading. Queens Moat Houses. Rockit and Colman. Interim dividends: Scottish Metropolitan Property Company.

COMPANY MEETINGS

See Financial Diary on page 8.

You've made a great deal of your property for years but

KE&R know how to get the most out of it

We will make that property portfolio really work for you

We expose the hidden growth potential

We value, manage and constantly monitor performance

We realise potential by selling, by redevelopment or by lease renegotiation

We challenge your rating assessment

We will upgrade the overall quality of your property holding

KE&R Knight Frank & Rutley

Probably the most diversified property service in the world

UK COMPANY NEWS

Stronger second half lifts Laird to £11.12m—pays maximum dividend

A SECOND half profit of £8.29m against £5.08m lifted Laird Group to a record £11.12m pre-tax for the 1978 year compared with £9.09m last time. Turnover for the full period was well up at £151m against £119.2m.

Earnings are shown as 15.32p (14.35p) per 25p share and the dividend is effectively stepped up to 2.982p (2.664p), the maximum permitted, with a final payment of 1.522p. Also proposed is a one-for-10 scrip issue.

After tax of £4.09m which includes £3.11m overseas—last year's charge £2.52m was all overseas—and an extraordinary debit of £890,000, the available balance came out lower at £8.33m (£8.57m).

The extraordinary items is the cost of placing subsidiary Western Shipbuilders on a care and maintenance basis, after tax. The amount retained was £5.03m (£5.41m) after dividends £1.32m (£1.18m).

Net asset value per share is given as 124.3p (111.7p) at the year end.

The directors say that claims for compensation for the nationalisation of Scottish Aviation and Cammell Laird Shipbuilders were made over two years ago and have not yet been agreed. To date some £1.45m has been received on account.

Laird is also involved in metal industry, transport, engineering, motor components, other engineering, etc.

● comment

Laird Group has come well up to expectations showing a 23 per

BOARD MEETINGS

The following companies have notified dates of board meetings to the Stock Exchange. Such meetings are usually held for the purpose of considering dividends. Official indications are not available as to whether dividends are intended or final and the sub-divisions shown below are based mainly on last year's timetable.

Interims: TODAY
Scottish Metropolitan
Property: H. Brammer, Ench. Freeman (London, S.W.3), T. and J. Hyman, Thomas Jordan, KCA International, G. F. Lovell, Low and Bonar, Macfarlane Group (Glasgow), Moray Dock and Harbour, Ocean Transport and

Trading, Queens Meat Houses, Reckitt and Coiman.

FUTURE DATES

Law (Wim.) April 19
S.S.G. April 20
Bank of Scotland April 20
Berwick Timpco April 21
Brown Bovin Kang April 21
Channel Is. & Ind. Inv. Tet. April 22
Cheroneuse (P.M.S.) Estates April 22
East Read Consolidated April 22
Folgarth and Harvey April 22
Lyon and Lyon April 22
Owen and Owen April 22
Rugby Portland Cement April 22
Taylor Pallister April 22

Goode Durrant sees increase

A PREDICTION that Goode Durrant and Murray Group, the international finance concern, will do better than the £900,000 pre-tax profit in the year to October 31, 1978, is made by Mr. Lionel Robinson, the chairman, in his annual statement.

He expects Rawlings Bros, a wholly-owned subsidiary which made a £48,000 profit against a £4.6m loss, to provide an increasing share of group profit.

The group's overseas operations continue to do well, he adds. The store in New Zealand—Kirkcaldie and Stains—has again achieved record profits and the Southern African and American confirming and financing operations also made substantial contributions.

The group has disposed of its Mozambique interests under a sale agreement conditional until July.

The reduction in group net borrowings—down from £18m to less than £1.6m—has followed the re-shaping of the UK business, he says. It has given the group a strong financial base from which to develop its traditional shipping, confirming progress already and we expect to do better this year, he concludes.

Meeting, Durrant House, EC, April 25, at 10 am.

NOTICE TO HOLDERS OF

MITSUI REAL ESTATE

DEVELOPMENT CO., LTD.

(LIMITED) TOKYO KANSAI KAIEN KAISHA

A 4 PER CENT CONVERTIBLE

BONDS DUE 1985

Pursuant to Condition 6(C) of the Terms and Conditions under which the above Bonds were issued, notice is hereby given as follows:

On March 3, 1979 the Board of Directors of the Company resolved to make a free distribution of shares of its Common Stock to shareholders of record as of March 31, 1979 in Japan, at the rate of 1 new share for each 20 shares held.

Accordingly, the conversion price of the Bonds has been adjusted to reflect the above distribution of shares. The conversion price is in effect prior to each adjustment was Ten 5/8 per share of Common Stock, and the adjusted conversion price is Ten 49/10 per share of Common Stock.

MITSUI REAL ESTATE DEVELOPMENT CO., LTD.

By: The Bank of Tokyo Trust Company, Ltd. as Trustee

Dated: April 2, 1979

VOSEPER LIMITED
Financial results for the year 31st October 1978

	1978	1977
Turnover	17,955	13,358
Trading Profit — including investment income	1,893	1,289
Nationalised companies — dividends	—	890
Profit before Tax	1,893	2,189
Profit after Tax	778	1,586
Revaluation of investments	771	780
Extraordinary item	500	—
Retained Profit	737	2,007
Earnings per share	12.62p	26.33p
Dividend per share	5.19p	4.85p

- * Turnover up by 32%
- * Trading profit up by 30%
- * Record profit by Voseper—Singapore
- * Extraordinary item—reorganisation costs in associated company
- * Nationalisation compensation—still no agreement

DA A SUBSIDIARY OF DAVID BROWN HOLDINGS LIMITED

THE LAIRD GROUP LIMITED

Results 1978

	Year to 31 December 1978 £'000	Year to 31 December 1977 £'000
Turnover	150,979	119,241
Profit before Tax	11,116	9,094
Tax	(4,092)	(2,520)
Profit after Tax	7,024	6,574
Extraordinary item	(690)	—
Profit available for Ordinary Stockholders	6,334	6,574
Dividends	(1,303)	(1,184)
Retained Profit	5,031	5,410
Earnings per Ordinary Stock Unit	15.32p	*14.35p
Net Dividend per Ordinary Stock Unit	2.982p	*2.664p
Dividend Cover	5.1	5.4
Net Assets per Ordinary Stock Unit	124.3p	*111.7p

* Adjusted for capitalisation issue

Notes

- As forecast, a final dividend of 1.522p net is recommended. This makes a total dividend for the year of 2.982p net, the maximum permitted increase over the 1977 dividend of 2.664p net (adjusted for last year's capitalisation). A one for ten capitalisation issue is again proposed.
- The tax charge includes overseas tax of £3.11 million (1977: £2.52 million).
- The extraordinary item is the cost of placing Western Shipbuilders on a care and maintenance basis. It is shown net of tax.
- Claims for compensation for the nationalisation of Scottish Aviation and Cammell Laird Shipbuilders were made over two years ago and have not yet been agreed. To date, only £1.45 million has been received on account.

MINING NEWS

Japanese funds for Nabarlek

BY KENNETH MARSTON, MINING EDITOR

Upsurge at A.B. Electronic

On sales ahead from £8.5m to £10.5m pre-tax profits of A.B. Electronic Products Group surged from £154,825 to £286,512 in the six months to December 31, 1978.

The directors state that they expect full year figures to top 1977's record £915,000. Profits for 1978 fell to £804,000.

Half-year earnings per 25p share are shown to have risen from 2.5p to 13.7p and the interim dividend is lifted from 2p to 2.5p, payable in June.

Profit was after depreciation of £288,948 (£252,502) and interest of £142,698 (£81,532). Tax took £125,000 (£82,000).

More growth is expected, particularly in the field of thick-film micro-circuitry, but a combination of UK inflation and the strength of the pound is causing increasing difficulty from foreign competition.

KENNING MOTOR

Kenning announces that 559,212 ordinary shares of 25p each have been issued pursuant to the conversion of £391,448 8 per cent convertible unsecured loan stock 1989/94.

The new shares will rank pari passu in all respects with the existing ordinary shares. Application has been made to the Council of the Stock Exchange for the shares to be admitted to the Official List.

PRUDENTIAL ASSURANCE

In our report of Prudential's latest bonus rates (March 30), the rate for personal pension plans in force for 23 years was incorrectly stated as 556s. The correct figure is 585s.

Vantona expenditure plans

A corporate plan covering the next three years has recently been completed by individual management of the Vantona Group, Mr. James Spooner, the chairman, says in his annual report.

The board has sufficient confidence in the results of this exercise to confirm a programme of capital expenditure costing more than £10m in the next three years.

Both this and the additional working capital arising will be financed from internal sources, the chairman says.

The immediate future gives cause for concern, however, Mr. Spooner states. The first three months' sales and profits have been affected by industrial unrest and the climate.

So far the group has suffered very little loss of production, but deliveries have inevitably been held up. It is hoped that most of

WORK at Nabarlek, which is to be the first of Australia's major uranium deposits in the Northern Territory to be brought to production, is to get under way in May-June now that Queensland Mines has arranged financing of the project with its Japanese customers.

The Japanese-power utilities, Shikoku Electric Power and Kyushu Electric Power, are to lead Queensland Mines a total A\$74.75m (£41m). The companies are expected to buy about 60 per cent of Nabarlek's estimated potential output of 10,000 tonnes of uranium oxide.

It is intended to mine the whole orebody over about six months. The ore will then be stockpiled and processed over eight to ten years at a production rate of about 1,100 tonnes of uranium oxide a year.

Queensland Mines hopes by late-1980 to be producing enough of the yellowcake to meet its Japanese delivery contracts. They were signed back in 1972 and until now have been met by borrowings from the Australian Atomic Energy Commission.

Shikoku's president, Mr. T. Yamaguchi, has stressed that his company is not seeking any equity stake in Queensland Mines or participation rights in its exploration area.

UMAL EXPECTS A BETTER YEAR

This year should be "acceptably good" for both Utah Mining Australia (UMAL) and its 10.8 per cent-owned Utah Development.

The last-named is Australia's largest coal producer and major revenue earner and is 89.2 per cent owned by America's Utah International.

The UMAL profit for 1978 declined to A\$15.4m (£8.4m) from A\$18.3m. However, the company is making a three-for-

one share split. The company's backlog will be recouped as more normal conditions are restored.

For the rest of the year some furthering in demand because of possible reduction in purchasing power is a distinct possibility, so that any optimism as to the outcome for the year to November, 1979 has to be very guarded at this stage.

In 1977-78, profits before tax rose from £8.73m to £7.31m, turnover of £82.43m against £78.53m. CCA profit is reduced to £5.81m after adjustments for depreciation, £1.1m, cost of sales, £1.05m and gearing, £471,000.

Again the balance sheet is a healthy state. After providing the £9.3m cash for the Compton Webb shares as well as record capital expenditure of £2.5m group overdrafts at the year end amount to £3.6m.

Net current assets are slightly improved while total reserves

again show a material improvement over last year in spite of having to bear a write-off of £3.8m goodwill arising on the acquisition of Compton Webb.

During the year, a subsidiary was involved in negotiations for the supply of cloth for use by the Iranian Army. No deliveries have yet been made.

If the arrangements are frustrated due to present circumstances in Iran, cloth to a value of £840,000 may have to be taken up with no immediate re-sale arrangements existing. It is not possible at present to estimate the eventual outcome of this matter.

However, the board is of the opinion that no material loss will be incurred and therefore no provision has been made in the accounts for any loss or claim which might arise.

Meeting, Manchester, April 24 at 2.30 pm.

THE SCOTTISH EASTERN INVESTMENT TRUST LIMITED

The Fifty-fourth Annual General Meeting of The Scottish Eastern Investment Trust Limited will be held on Monday, 23rd April 1979 at the offices of the Company, 29 Charlotte Square, Edinburgh. Mr. A. Logan McClure (the Chairman) presiding.

The following are extracts from the Directors' Report for the year to 31st January 1979:—

REVENUE
Total Revenue as shown in the Accounts increased from £4,442,099 to £5,085,823 and after charging interest on borrowed money, management expenses and taxation, the revenue available for distribution amounts to £2,778,443 compared with £2,339,348 previously.

DIVIDEND
The Directors recommend a final dividend of 2.80p per Ordinary Share which, with the increased interim dividend already paid, makes 4.80p for the year, compared with 4.05p last year. After provision for the dividend the revenue carry forward is increased by £181,518.

VALUATION
At the year-end, the total net assets attributable to Ordinary Shares were £45,218,601 compared with £30,613,668 last year. Based on these figures, the Net Asset Value of an Ordinary Share was 180.3p compared with 152.7p a year ago.

At 31st January 1979, 89.7 per cent of the funds was invested in equities with 34.2 per cent of the total in North America and a further 8.6 per cent in other overseas countries. 8.2 per cent was held in Cash Deposits.

OUTLOOK
The economies of the major developed countries of the free world made better than expected progress in 1978, all recording real growth in goods and services of at least 3 per cent. This provided a reasonable background for industry and commerce in home markets, but world trade was seriously disrupted by international currency movements.

Current volatility has not only created great problems for businessmen and investors, but has also impeded the economic planning and domestic policies of governments. Last November a determined effort was made by the U.S.A. authorities to halt the decline in the value of the dollar. Since then it appears that the major monetary powers have agreed to act in concert to mitigate currency movements. Although it is hoped that exchange rates will be more stable in 1979, it still seems wise to maintain a broad geographical spread of assets.

Wall Street currently reflects the unease caused by interruptions to crude oil supplies, fears of much higher energy prices, and a period of slower growth ahead. This may present an attractive opportunity for the long term investor but, with interest rates likely to be held high to combat inflation and protect the dollar, any change in sentiment is looked for. In London, share prices, as measured by the All Share Index, have recently moved into new high ground. This move seems to have been prompted by the realisation that the United Kingdom now has a relatively secure supply of oil and may soon have a government committed to encouraging private enterprise. However, until it becomes clear that the critical situation in the Middle East can be resolved peacefully, and the governments in London and Washington are fully committed to responsible monetary and fiscal policies, a difficult period ahead is expected.

Estimated future earnings of the companies in which the Trust has investments in the U.K., U.S.A. and the Far East indicate that there is scope for higher dividend income in the year ahead. However, these estimates could easily be upset by events and, rather than committing ourselves to any specific forecast of revenue which might have to be attained at the expense of capital, we prefer to direct our attention to the long term growth of both. At present it does not seem likely that increases in line with those of 1978/79—when both dividends and net asset value were up 18 per cent approximately—will be attainable, but this will be the aim.

CAPITALISATION ISSUE
It is proposed to make a capitalisation issue of 52.8m Ordinary Shares of 25p each in the ratio of one new share for each share held. The new shares will not receive the final dividend declared in respect of the year ended 31st January 1979.

THE YEAR IN BRIEF

	Year ended 31st January 1979	1978
Total Revenue	£5,085,823	£4,442,099
Earnings per Ordinary Share	5.11p	4.27p
Paid per Ordinary Share	4.80p	4.05p

Total Net Assets attributable to Ordinary Shares £45,218,601 £30,613,668
Net asset value of each Ordinary Share 180.3p 152.7p
Prior charges at par 186.8p 158.4p
Prior charges at market value 9,000 9,300
Number of Ordinary Shareholders
Edinburgh 19th March 1979
Copies of the Annual Report may be obtained from the Secretaries, 29 Charlotte Square, Edinburgh EH2 4HA.

BIDS AND DEALS

Piran ginger group considers legal action

BY JAMES BARTHOLOMEW

THE DISSIDENT shareholders of Piran would have succeeded in ousting the current board at the EGM last Friday if certain proxies cast on the boards side had been discounted as invalid.

Mr. Max Lewinson, leader of the rebel group said yesterday.

Mr. Lewinson has been advised by Coopers and Lybrand, the scrutineers appointed by him, that there are grounds for regarding several of the biggest proxy votes as invalid. He is considering taking legal action to remedy the situation this week.

Proceedings were "almost inevitable," he said.

It is the proxy votes sent by some of the seven offshore companies which have become so controversial. The dissident shareholders failed last week to obtain an injunction to prevent these companies voting because they had given information about their beneficial ownership which was allegedly unlikely to be true.

Mr. Lewinson conceded yesterday that some of the seven had presented valid proxies but claims that the disputed proxies represented something like 2m votes. The dissidents would have won the day if these votes were not counted as the board had a majority of 1.3m votes.

Mr. Lewinson claimed that shareholders had voted 3 to 1 in favour of throwing out the Board if the votes cast by all seven offshore companies and the company controlled by Mr. James Raper, a former chairman and the biggest single shareholder, were ignored.

Mr. Lewinson noted that at least six of the seven offshore companies had sent their votes from London post boxes despite the fact that the companies were registered variously in Hong Kong, Luxembourg and Panama.

Whether or not Mr. Lewinson actually does take legal action on the poll, the story is not over. The EGM last Friday was adjourned and will be resumed on Wednesday, April 11, at 2.00 pm.

MARLEY IN BRAZIL

Marley has increased its holding in Fademac Brazil from 36 per cent to 49 per cent with Eternit of Belgium as the joint partner.

Fademac is investing in excess of £1m to increase production capacities and build a new flooring line to produce Marley's latest domestic flooring.

Marley's original investment in Fademac was £312,000. The success of the company has permitted a liberal dividend policy and Marley's capital has been more than repaid by the receipt of dividends totalling £280,000.

THOMAS WITTER

AND COMPANY, LIMITED

Manufacturers of Smooth-surfaced Floor Coverings, Broadloom Carpets, Bituminised Roofing Felt, Asbestos Felt, Packaging Board, etc.

RESULTS REACH RECORD LEVELS
ANOTHER GOOD YEAR IN PROSPECT

The 81st Annual General Meeting of Thomas Witter and Company, Limited was held on 30th March at Chorley. The following are extracts from the circulated statement of the Chairman, Mr. H. Bowser.

For the year ended 30th November 1978 the pre-tax profits rose to a record figure of £1,873,375 against £878,387 last year. Turnover at £28,483,000 was up 19.70%.

The Board recommend the payment on the 4th April 1979 of an increased final dividend of 2.8413443p per share, making a total for the year of 3.5113443p, equivalent to a gross dividend of 20.983%, as compared with 19.097% last year.

The record sales and profits in the year were due to higher productivity and the new developments achieved in our manufacturing units. Service to customers improved and all products returned increased profits. The continued development of new products and the pursuit of additional outlets for our products both at home and overseas is being vigorously maintained.

The returns from our Subsidiaries are still unsatisfactory. Every effort is being made to ensure improvements.

The current financial year started well but the crippling road haulage strike and secondary picketing forced the closure of our felt mill at Heapey for the duration of the strike, and for lesser periods of time at our other factories. These disruptions involved us in a serious loss of production which cannot be made good and will have an adverse effect on profits. However, we look forward to having an all another good year, provided always, problems not of our making, or beyond our control, are not thrust upon us.

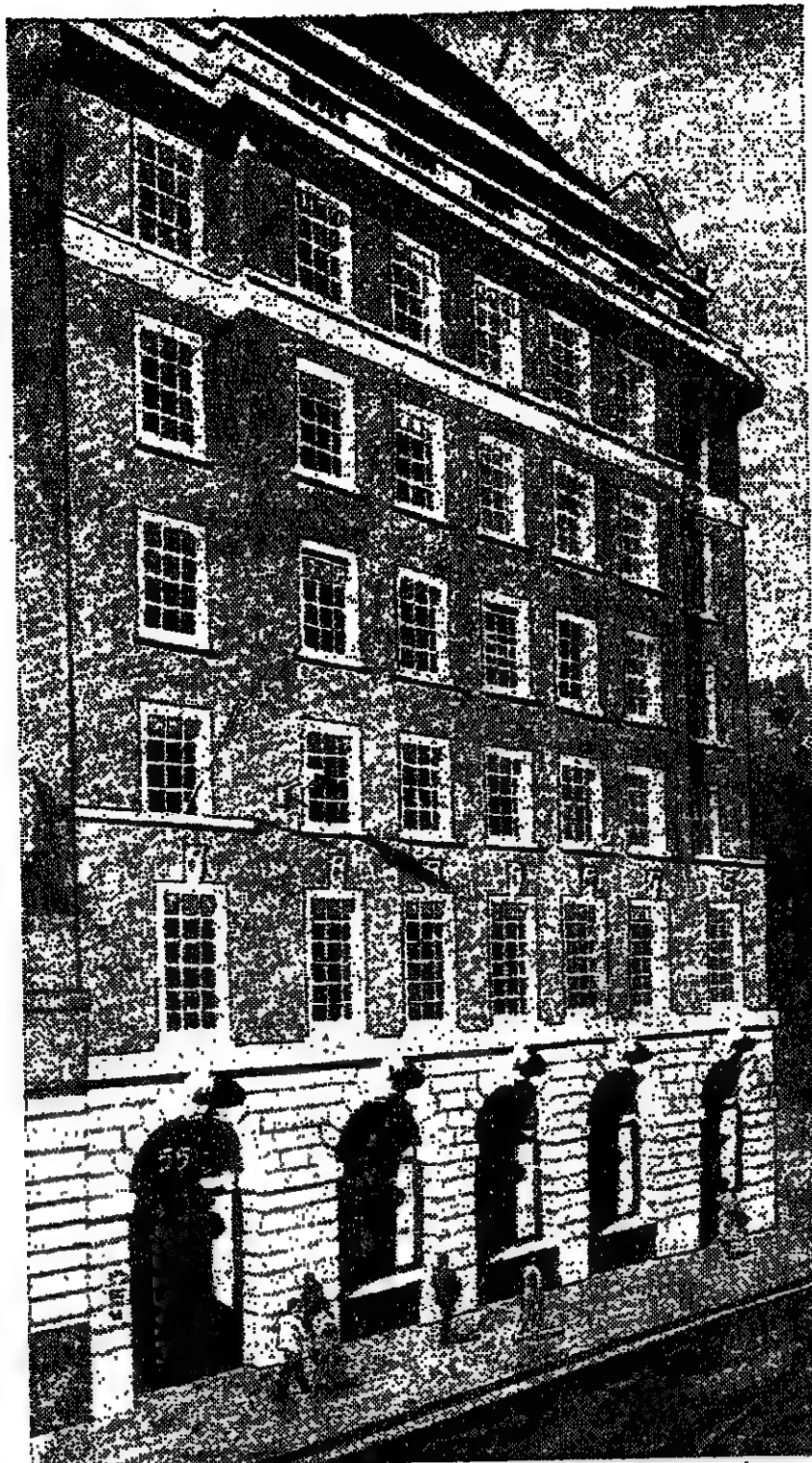
LOCAL AUTHORITY BOND TABLE

Authority (telephone number in parentheses)	Annual Interest gross pay- interest able	Life Minimum of sum. bond
Knowsley (051 548 6555)	12½	1-year 1,008 5-7
Redbridge (01-478 3020)	11½	1-year 200 4-5
Sefton (051 923 4040)	11½	1-year 2,000 5-7
Wrekin (0952 505051)	12½	yearly 1,000 6-10

FINANCE FOR INDUSTRY TERM DEPOSITS

Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid gross, half-yearly. Rates for deposits received not later than 12.4.79.

Terms (years) 3 4 5 6 7 8 9 10
Interest % 11 11½ 11½ 11½ 11½ 11½ 12½ 12½
Deposits to and further information from The Chief Cashier, Finance for Industry Limited, 91 Waterloo Road, London SE1 8XP (01-928 7822, Ext. 177). Cheques payable to "Bank of England, a/c FFI." FFI is the holding company for IFC and FCI.



On April 2nd Canadian Imperial Bank of Commerce is moving to 55 Bishopsgate London E.C.2.

The move of our City Branch from 2 Lombard St and the European Operations Office from 42 Moorgate to new premises in Bishopsgate is yet another indication of the continuing growth of Canadian Imperial Bank of Commerce as a major force in world banking and finance.



**CANADIAN IMPERIAL
BANK OF COMMERCE**

55 Bishopsgate, London EC2N 3NN. Telephone 01-629 9858.
Telex 888229. Cable CANIMP London E.C.2.

The week in Parliament

TODAY
COMMONS: Proceedings on the Representation of the People Bill. Completion of Remaining Stages of the Arbitration Bill (Lords), the Crown Agents Bill and of the Consents to Prosecutions Bill and proceedings on the Pneumoconiosis Etc. (Workers' Compensation) Bill. **LORDS:** Industry Bill (Money) third reading. Nurses, Midwives and Health Visitors Bill, third reading. Estate Agents Bill, remaining stages. Motions to approve the White Fish subsidy (Deep Sea Vessels) (Specified Ports) Scheme, 1979. Air Navigation (Noise Certification) Order 1979. Carriage by Air Acts (Application of Provisions) (Second Amendment) Order 1979. Credit Unions Bill, second reading.

SELECT COMMITTEE: Expenditure, Arts and Home Office Sub-Committee. Subject: Women and the Penal System. **TOMORROW**
COMMONS: Proceedings on the Finance Bill and on the Consolidated Fund (Appropriation) Bill. Completion of remaining stages of the Weights and Measures Bill, the Leasehold Reform Bill and Carriage by Air and Road Bill (Lords).

WEDNESDAY
COMMONS: Banking Bill, consideration of Lords amendments. Nurses, Midwives and Health Visitors Bill. Lords amendments. Estate Agents Bill. Lords amendments. Proceedings on the Ancient Monuments Bill (Lords) and on three consolidation measures, the Exchange Equalisation Account Bill (Lords), the International Monetary Fund Bill (Lords) and the Prosecution of Offences Bill (Lords).

LORDS: Motion to approve Innermost (Immunities and Privileges) Order 1979. Consolidated Fund (Appropriation) Bill, Finance Bill, Weights and Measures Bill and Leasehold Reform Bill, all stages. Crown Agents Bill, Consents to Prosecutions Bill and the Pneumoconiosis Etc. (Workers' Compensation) Bill, remaining stages.

Royal Assent will be given to all outstanding Acts and Parliament will then be prorogued prior to dissolution on Saturday, April 7.

BUSINESSMAN'S DIARY

UK TRADE FAIRS AND EXHIBITIONS

Date	Title	Venue
Current	London Fashion Exhibition (01-385 1200) (until April 5)	Olympia
Current	The Scottish Hotel, Catering and Licensed Trade Exhibition (031 229 6412) (until April 6)	Kelvin Hall, Glasgow
Current	International Engineering Inspection and Quality Control Exhibition (01-300 3300) (until April 6)	Exbn. Centre, Birmingham
Apr. 3-6	Leatherwear International (01-385 1200)	Olympia
Apr. 3-5	Computermarket 79 (01-935 4986)	Bloomsbury Centre Htl. WC1
Apr. 3-6	OCCA Technical Exhibition (01-908 1086)	Alexandra Palace
Apr. 5-8	Tipping Vehicle Exhibition (061-534 7648)	Exbn. Centre, Harrogate
Apr. 6-17	Birmingham Motor Show (0602 51202)	Bingley Hall
Apr. 9-14	Ideal Homes Exhibition (031 225 9657)	Assembly Rooms, Edinburgh
Apr. 18-21	National Food Services (01-686 7181)	Grosvenor House, W1

OVERSEAS TRADE FAIRS AND EXHIBITIONS

Current	Title	Venue
Current	Travel and Holiday Fair 79 (01-496 1951) (until April 6)	Helsinki
Current	European 79 (01-499 3964) (until April 9)	Paris
Current	Toys and Games Trade Show-BELJOUETS (until April 8)	Brussels
Apr. 5-8	International Coffee Exhibition	Zurich
Apr. 8-10	MODEXPO-International Ladies' Fashion Fair	Milan
Apr. 14-23	International Trade Fair	Jerusalem
Apr. 19-25	International Book Fair	Amsterdam
Apr. 20-29	International Household Fair	Braga
Apr. 21-29	AGRO 79-Northern Agricultural Fair	

BUSINESS AND MANAGEMENT CONFERENCES

Current	Title	Venue
Current	Management Centre Europe: Management Course (until Apr. 6)	London
Current	IPM: Industrial Relations Law: The impact of current legislation (01-387 2844) (until June 7)	Upper Woburn Place, WC1
Current	BTSC: Senior Management Course (04882 5444) (until April 28)	Woking, Surrey
Apr. 2	AMR International: Interviewing Skills and Techniques for Executives (01-282 2732)	Royal Garden Hotel, W8
Apr. 2	ESC: Important Developments in the Protection of Industrial Designs (057 282 2711)	Hilton Hotel, W1
Apr. 2-4	ASM: Managing and Controlling R and D projects (01-385 1992)	RAC Club, SW1
Apr. 2-4	MSS Computer and Business Consultancy: Effective Marketing and Selling (0908 34758)	Worthing
Apr. 2-6	Frank Jenkins: Export FR/Planned Press Relations (01-687 2811)	Connaught Rooms, WC2
Apr. 3	Executives Conferences: Justifying and Selecting Automatic Test Equipment (0494 33171)	Hotel Russell, WC2
Apr. 3-6	Energy Utilisation and Conservation Conference (01-637 2400)	Royal Lancaster Hotel, W2
Apr. 3	NTIS: Information Services (0420 84900)	American Embassy
Apr. 3	Kvaliteitsdienst-KDL: Effective Material Utilisation (01-636 5351)	Hilton Hotel, Rotterdam
Apr. 3-6	BACIE: Training Design (01-549 5831)	Regent's Park, W1
Apr. 4	The Spring Research and Manufacturers' Association: Health and Safety in the Spring Industry (0742 760771)	Europa Lodge Htl., W. Brom.
Apr. 4-5	Graham and Trotman: Saudi Arabia and Egypt: Current and Future Business Opportunities (01-493 6351)	Cafe Royal, W1
Apr. 4-6	BERA: Institution of Chemical Engineers: Mixing (0234 750422)	University of York
Apr. 4-6	ISBA: World Industrial Advertising Congress (01-222 6362)	Amsterdam
Apr. 4-6	International Insurance Conference (01-222 6382)	Plaza Hotel, Frankfurt
Apr. 4-6	Assoc. of Offshore Diving Contractors: Underwater Engineering Symposium (01-549 5831)	University of Aberdeen
Apr. 6	Oyez-IBC: Damages for Personal Injury and Death (01-442 2451)	Royal Lancaster Hotel, W2
Apr. 9	The 48 Group: Trends in British Trade with China (0772 51531)	Guild Hall, Preston
Apr. 10	AGB: Trade Union Recognition—the options (01-353 3851)	London Press Centre
Apr. 10	The Institution of Mechanical Engineers: Power from Coal (01-222 7899)	Birdcage Walk, SW1
Apr. 11	LCOI: Conference on Libya (01-348 4444)	Cannon Street, EC4
Apr. 11	The Henley Centre for Forecasting: The Budget (01-236 3011)	Carlton Tower Hotel, SW1
Apr. 11	BAMA: Achieving production efficiency (0703 842785)	Kensington Close Hotel, W8
Apr. 14-21	CBA/John Ridgway: Training Course (01-720 7711)	Ardmore
Apr. 18-19	IMPI/AMEDA: Microwave—a Cooking Revolution (0852 411001)	London, W8
Apr. 18	AGB: Executive Secretary (01-353 3851)	Charing Cross Hotel, WC2
Apr. 18-20	Eurotech Management Development Service: Be a More Effective and Persuasive Communicator (0282 313086)	Cafe Royal, W1
Apr. 19	AGB: Essentials of Employment Law (01-353 3851)	Cafe Royal, W1
Apr. 18-20	FT Conference: South East Asian Banking and Finance (01-238 4982)	Singapore
Apr. 18-20	MSS Computer and Business Consultancy: Manufacturing/Production Control Concepts (Worthing 34785)	Worthing
Apr. 19-20	Malaysian Investment Centre: Assisting UK Businessmen in the Expansion of Trade and Investment Opportunities in Malaysia (01-493 0616)	Piccadilly Hotel, Manchester
Apr. 20-23	IPM: Current and Future Developments in Pay Policy and Industrial Relations Practice (0865 735422)	Kennington, Oxford

Protected Eagles No. 1

White Tailed Sea Eagle

Extinct in the United Kingdom by 1916. Re-introduced in 1977.
Main habitats Scandinavia and Asia.
Fourth largest eagle in the world, with a wing span of 7-8 feet.
Like all eagles it is a protected bird.



With 160 U.K. branches you can rely on our countrywide insurance service for your protection. Millions do.
Ask your broker or call in at your nearest branch.



Eagle Star Insurance

مكتبة النحل

"Notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales."

Sir Bernard Scott, Chairman.

RESULTS

Turnover for the six months was £510m, an increase of £48m. The Lucas share of Associated Companies' (all overseas) turnover was a further £61m giving a total turnover of £571m which is £64m higher than the previous year. Sales in Europe increased by 21% and those in the US by 43%. Direct exports from the UK were up by 24% to a record level of £286m. Profits before tax for the six months at £24m were disappointing and this was due to the poor performance of the UK market. During the whole of the first half of the financial year there has been a series of disruptions to production and sales caused by the wide-ranging problems both within the industry and elsewhere. Thus the UK production of vehicles showed a decline of no less than 18% on the previous year. An additional

factor that reduced profit was our considerable spending on new projects not yet on stream but which will make an important contribution in the future. Outside the UK our companies in Europe and other overseas areas performed well and increased their profits by 28%.

PROSPECTS

The outcome will depend materially on the industrial climate prevailing in the UK for the remainder of the year. Steady and sustained production is essential to restore the profitability of our domestic business to a satisfactory level. However, notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales. Our prospects are good and market penetration continues to increase.

1979 Interim Results at a glance:

	Half-year to 31.1.79 £ million	Half-year to 31.1.78 £ million	Year to 31.7.78 £ million
Sales to outside customers	510.14	462.39	971.17
Surplus on trading	26.87	30.34	77.91
Profit before taxation	24.09	27.61	73.05
Earnings per ordinary share	18.89p	22.95p	59.89p
Dividend per ordinary share	2.57p	2.33p	9.18p

Lucas

Lucas Industries Limited, Great King Street, Birmingham B19 2XP.

INTERNATIONAL BONDS

BY FRANCIS GHILES

The Canadian dollar comeback

ANOTHER startling week for the prices of sterling bonds and of dollar bonds convertible into British equities, also saw the re-emergence of the primary market in fixed interest Euro-dollar bonds—and after a long absence of new issues in Canadian dollars. Meanwhile conditions in the "hard currency" market, which ruled the roost last year, continued to deteriorate.

The Canadian dollar sector of the market was re-opened after being closed for 18 months. All indications at the end of last week pointed to a warm reception for the two Canadian dollar issues, for Canada's Export Development Corporation and Hudson's Bay Co. which were announced on Tuesday. The Hudson's Bay issue was increased from an initial \$400m to \$450m later in the week. A third issue, for the province of Quebec, was announced on Friday evening.

The total size of the EDC bond is \$810m of which \$350m has been issued in the traditional way while a further \$460m remains for issue between now and the end of the year at the discretion of the borrower.

The coupon and maturity will be the same regardless of when the individual bonds are issued, with changes in market conditions being taken into account by altering the issue price.

The only other occasion when

such a "quasi-tap" issue was arranged was in September 1977, by Orion Bank, one of the joint lead-managers in the EDC issue, for Oesterreichische Kontrollbank.

The reopening of this sector was made possible by the improvement in the Canadian currency since the beginning of March. If then stood at C\$0.83 against the U.S. dollar but had moved up to C\$0.86 by last Friday. This improvement is reinforced for the investor by the higher yield he can get on the new Canadian dollar issues than on recent U.S. dollar issues.

Electricité de France reopened the dollar sector of the straight Eurobond market with a \$750m offering. A \$400m straight issue for Comalco was then announced later in the week. The reception for EDF was fair, not least on account of the rarity of the name, but some retail investors objected to the fact the bonds could be redeemed after three years at a price of 100. Many felt higher yields were available for three years in other types of paper.

Turnover of seasoned dollar bonds was said by dealers to be average. Against the background of the dollar and easing interest rates the declining yield premium offered by money market instruments may be diverting some funds back into bonds. This consideration

appears to outweigh the more bearish ones, such as the U.S. rate of inflation and further increases in the price of oil.

The announcement of oil price increases and the threat of further rises in inflation and interest rates again troubled the Yen, D-Mark and Swiss franc sectors. Prices of D-Mark bonds

calendar for the four weeks starting March 26, which was set at a maximum of DM 770m, was too high.

The deteriorating state of this market was confirmed by the terms for RENFE and particularly by those for the Fujitsu convertible which carries a coupon of 5 per cent, the

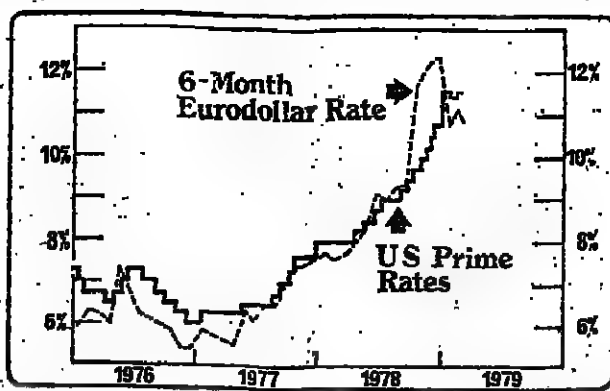
per cent. The big three Swiss banks decided to freeze the issue of subsequent Japanese convertibles.

The bad state of the Swiss bond market forced Banque Keyser Ullmann en Suisse to announce a coupon of 5 per cent on the SwFr 40m 10-year public issue it is arranging for Lomro. The level of the coupon was at least 1/2 of a point above what was expected, a week before.

The deterioration of the Yen sector was reflected in the decision by the Japanese authorities to curtail Yen bond issues planned for the next two months. This forced both Denmark and Austria to scale-down their plans for Yen bond issues next month.

In the sterling sector gains of up to 34 points were registered on the week. The recent issue for FFI closed at 103 on Friday. The excitement on the British stock market coupled with the strength of sterling showed through clearly in the prices of UK dollar convertibles. The Thorn issue closed at the end of the week at 152, up from 103 at the beginning of March. On Thursday morning this security put on 10 points in as many minutes.

In the French franc sector the FFf 125m bond for Solvay was priced at par and a half. It was four times over-subscribed.



Hungary is to borrow \$100m by way of a syndicated loan paying 3 1/2% above U.S. prime rate rather than LIBOR. The chart shows why this could be more attractive to U.S. banks. The loan is being managed by Manufacturers Hanover Group of the U.S.

fell by an average of 1 point across the board in very thin trading after the announcement that both the discount and Lombard rates would go up by a full point in Germany. Some German bankers also felt that the new D-Mark issue

highest for a DM denominated Japanese convertible for a long time.

In the Swiss franc sector, too, the Japanese are having to pay more on convertibles: Rhythm Watch paid 3 1/2 per cent instead of the recently prevailing 3 1/4

INTERNATIONAL LOANS

BY MARY CAMPBELL

An impressive digest from the BIS

THANKS to the Bank for International Settlements (BIS), it is now at last possible to make sensible estimates of individual countries' debts without several years' study of statistical niceties first.

On Friday, the BIS published a document called "Manual on Statistics Compiled by International Organizations on Countries' External Indebtedness". As may be guessed from the title it is not the sort of tome which every loose syndication officer needs to carry round the world in his pocket.

But from now on no bank involved in international lending, however small his research department, can have any excuse for failing to do its

homework on any national debt position.

The manual could also be useful to companies involved in providing supplies to credit companies which have tended to be the main losers so far in the critical case of default like Turkey, which have already come out into the open.

Finally, it is likely to consolidate the position even of experts in the field. One commentator on country debt said last week that it would fill in a number of gaps in his understanding of the statistics.

Arguably it is the most important contribution to international credit assessment since the BIS started to break down banks' cross-frontier lending by

maturity in December 1978.

For while a great deal of data is now published on countries' foreign debts, it comes from so many different sources at so many different times of year that it has been very difficult to use.

The new study, which runs to 110 pages, does three things. First, it lists and describes all the various international sources of information both on cross-frontier flows of funds and also on the outstanding stock of countries' external debt. It tells readers what information is available from where, what the approximate publication dates are, and how out of date it is when published.

Second, it explains the scope and limitations of the information. Third, it gives indications of how all this information can be roughly put together to compile an estimate of overall indebtedness.

It falls far short of actual aggregation of the figures for individual countries. But the publication is part of the general thrust to improve the quality of data available on country debt.

An actual aggregation of figures might be the next stage. The BIS notes that the international organizations concerned are now examining the extent to which these data could be aggregated in a form suitable for publication, using

the more detailed information available for their own purposes but which is not publicly available. But such a development would not happen overnight, even if the necessary agreements for it were to be secured.

The World Bank, the Organization for Economic Co-operation and Development (OECD) and the International Monetary Fund have all helped to prepare the new publication.

Imposing controls on banks' international lending has hitherto been considered virtually impossible. The authorities have therefore concentrated on helping lenders to help themselves by improving the information flows.

CURRENT INTERNATIONAL BOND ISSUES

Borrowers	Amount m.	Maturity	Yield %	Coupon %	Price	Lead manager	Offer yield %
U.S. DOLLARS							
1 Texas Int'l Airlines	35	1984	6.2	7	100	CSFB, Kidder Peabody, Smith Barney	7.12
18 Swiss Int'l Bank	25	1989	7.1	7	100	Hambros, Skand. Enskild, Eur. Banking Co. & others	7.75
18 Swiss Int'l Bank	30	1984	6.2	6	100	Credit Lyonnais & others	6.80
18 Swiss Int'l Bank	50	1989	6.2	6	100	Credit Lyonnais & others	6.80
18 Swiss Int'l Bank	20	1984	12.8	12.8	100	Kidder Peabody, Salomon Bros., Societe Generale	8.425
18 Swiss Int'l Bank	150	1986	7.1	7	100	Societe Generale	8.425
18 Swiss Int'l Bank	75	1986	7.1	7	100	Societe Generale	8.425
18 Swiss Int'l Bank	40	1981	6.2	6	100	Morgan Stanley Int.	6.80
D-MARKS							
18 Swiss Int'l Bank	100	1989	8.1	8	99	WestLB, WestLB, BNP-Paribas	6.57
18 Swiss Int'l Bank	100	1987	8.1	8	99	WestLB, BNP-Paribas	7.07
18 Swiss Int'l Bank	50	1983	8.1	8	99	WestLB, BNP-Paribas	7.07
18 Swiss Int'l Bank	50	1984	8.1	8	99	WestLB, BNP-Paribas	7.07
SWISS FRANCS							
18 Swiss Int'l Bank	40	1989	6.2	6	100	Bah. Keyser Ullmann en Suisse	5.0
18 Swiss Int'l Bank	40	1989	6.2	6	100	Credit Suisse	4.0
18 Swiss Int'l Bank	40	1989	6.2	6	100	Bank Julius Baer	3.79
18 Swiss Int'l Bank	40	1989	6.2	6	100	Credit Suisse	3.5
18 Swiss Int'l Bank	40	1989	6.2	6	100	Swiss Volksbank	3.25
18 Swiss Int'l Bank	40	1989	6.2	6	100	UBS	3.5
FRENCH FRANCS							
18 Swiss Int'l Bank	125	1987	7.1	7	99	Banque de l'Union Europeenne	9.66
LUXEMBOURG FRANCS							
18 Swiss Int'l Bank	500	1989	6.2	6	99	Kredietbank Lux.	8.07
CANADIAN DOLLARS							
18 Swiss Int'l Bank	50	1984	5.1	5	100	Wood Gundy, Orion	10.25
18 Swiss Int'l Bank	50	1989	8.1	8	100	Wood Gundy, Orion	10.25
18 Swiss Int'l Bank	50	1986	7.1	7	100	Wood Gundy, Orion	10.25
YEN							
18 Swiss Int'l Bank	100	1989	9.1	9	99	Daiwa, Yamaichi	7.38
18 Swiss Int'l Bank	100	1989	9.1	9	99	Daiwa, Yamaichi	7.41
UNITS OF ACCOUNT							
18 Swiss Int'l Bank	40	1989	6.2	6	99	Kredietbank NV	8.33

U.S. BONDS

BY STEWART FLEMING

Facing up to indices

THE NEW YORK bond market is facing some difficult tests over the next few days as investors try to assess the implications of the continuing uncertainty in the trucking industry, the uncertainties posed by Congress's failure so far to raise the Federal debt limit and the publication later this week of the Producer Price Index for March which is widely expected to show that inflationary pressures continue to run at a double digit annual rate.

Throughout most of last week the prices of long-term bonds were firm and in spite of a decline on Friday prices in both the corporate and Treasury sectors ended the week a shade higher with gains of around one quarter of a point in longer

dated government issues. Interest rates in the short term money market also declined slightly, although the Federal Reserve Board's target of about 10 per cent for Federal funds appeared unchanged.

The performance of the market was widely ascribed to the continued failure of Congress to approve an increase in the U.S. Government's debt ceiling from \$798bn to \$830bn and the consequent shortage of stock.

The lack of action in Congress on this issue threatens to pose a serious problem for the authorities and has already disrupted the financial markets. Unless the House of Representatives acts today to approve an increase, the Administration

will, according to official forecasts, be unable to meet its obligations.

These include payment of some \$7bn of social security cheques. Last week the Treasury stopped selling savings bonds and in efforts to increase the available cash, called on banks to pay in any tax receipts they were holding. In order to stay within its debt ceiling, the Treasury has also postponed an estimated \$10bn of securities.

On the assumption that Congress approves the increase in the debt ceiling early this week, the markets are likely to be faced with the task of absorbing a flood of new Treasury sales and it was this prospect which sparked the decline in prices on Friday.

FT INTERNATIONAL BOND SERVICE

BONTRADE INDEX AND YIELD

	Medium term	Long term
Mar. 30	86.22	86.16
Mar. 23	86.17	86.09

High 78...	85.75	(1/2)	85.98	(30/1)
Low 78...	84.40	(11/1)	85.67	(28/2)

EUROBOND TURNOVER

U.S. \$ bonds	Credit	Euroclear
---------------	--------	-----------

Previous week	414.5	1,168.3
Current week	662.7	1,440.7

Other bonds	806.0	403.0
Previous week	888.9	464.4

* No information available—previous day's price.

† Only one market maker supplied a price.

STRAIGHT BONDS: The yield is the yield to redemption of the mid-price; the amount issued is in millions of currency units except for Yen bonds where it is in billions. Change on week = Change over price a week earlier.

FLOATING RATE NOTES: Denominated in dollars unless otherwise indicated. Prem = Percentage premium of the current coupon becomes effective. Spread = Margin above six-month offered rate for U.S. dollars. Cdn = The current coupon. Cyt = The current yield.

CONVERTIBLE BONDS: Denominated in dollars unless otherwise indicated. Cgt = First date for conversion into shares. Cnv. price = Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prem = Percentage premium of the current effective price of acquiring shares via the bond over the most recent price of the shares.

The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past week were supplied by: Bontrade; Kredietbank NV; Credit Commercial de France; Credit Lyonnais; E. F. Hutton Services SARL; Commerzbank AG; Deutsche Bank AG; Westdeutsche Landesbank Girozentrale; Banque Internationale Luxembourg; Kredietbank Luxembourg; Algemeine Bank Nederland NV; Pierson, Helderling and Pierson; Credit Suisse/Swiss Credit Bank; Union Bank of Switzerland; Akroyd and Smithers; Bankers Trust International; Banque Francaise de Credit International; Citicorp International Bank; Europe NV; Daiwa Trading Company; Dillon Read Overseas Corporation; EBC; First Chicago; Goldman Sachs International Corporation; Hambros Bank; IBJ International; Kidder Peabody International; Merrill Lynch; Morgan Stanley International; Nesbitt Thomson; Salomon Brothers International; Samuel Montagu and Co.; Scandinavian Bank; Strauss Turnbull and Co.; Sumitomo Finance International; S. G. Warburg and Co.; Wood Gundy.

Closing prices on March 30

© The Financial Times Ltd. 1979. Reproduction in whole or in part in any form not permitted without written consent. Data supplied by Inter-Bond Services (a subsidiary of dataSTREAM International).

YEN STRAIGHTS

Issued	Bid	Offer	Change on week
--------	-----	-------	----------------

Asahi Bank 5% 85	10	87.5	+0.5
Australia 5% 85	10	87.5	+0.5
Australia 5% 85	10	87.5	+0.5
Finland 5% 85	10	87.5	+0.5
Finland 5% 85	10	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Nordic 1% 84 SDR	20	87.5	+0.5
Auto Cote 5% 84 SDR	18	87.5	+0.5
Komm. Inst. 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5
Finland 5% 84 SDR	18	87.5	+0.5

Other Straights	Issued	Bid	Offer	Change on week
-----------------	--------	-----	-------	----------------

Questions begged by compulsory liability

BY OUR INSURANCE CORRESPONDENT

WE ARE now in the eighth year of compulsory employers' liability insurance and so smoothly have the compulsory laws been applied by the insurance market that the only visible evidence of change has been the displays on office and factory noticeboards of current statutory certificates of insurance.

It is true to say that the employer must have cover to ensure employees receive compensation for any injury or illness caused in the course of their work as the result of the employers' negligence. This provokes the questions: "Who is an employee?" and "which employees have to be protected by law?"

The 1969 Act defines an employee as "an individual who has entered into or works under a contract of service or apprenticeship with an employer whether by way of manual labour, clerical work or otherwise, whether such contract is expressed or implied, oral or in writing." It then goes on to exempt certain employees and certain employees.

Vital words

The vital words are "under a contract of service or apprenticeship," but almost all insurers provide cover in respect of people outside the statutory definition: for example, people hired to or borrowed by the employer while under a contract with some other employer, or perhaps self-employed people doing work normally performed under a contract of service or apprenticeship with the policyholder.

The number of people who might be called "quasi-employees" and whose rights to compensation for work accidents may be insured for under liability policies is increasing.

Last Friday a Financial Times report described how GEC at Manchester is running, in conjunction with the Manpower Services Commission, fortnightly employment induction courses, each for up to a dozen young unemployed people. While much of the time is taken up with classroom exercises, lectures and visits round the factory, on several of these young people are allocated positive tasks under supervision.

The Manpower Services Commission is concerned with two kinds of scheme for young unemployed.

In the first, the Youth Opportunities Programme, is to provide some youngsters with a practical introduction to working life. The youngsters do not legally become an employee of the undertaking involved.

In the second, the Special Temporary Employment Programme which provides temporary jobs in areas of unemployment, the worker becomes a legal employee.

An undertaking

Insurers have now given an undertaking that any young person involved in either scheme will be treated as an employee, not just for the purposes of employers' liability insurance but for public liability insurance as well. The employer participating in such an arrangement does not have to tell insurers in advance, though he does have to include the temporary employees' wages in whatever declaration insurers require.

During their final school year some pupils undertake a few weeks' unpaid work to find out whether their chosen employment is suitable. Usually local authorities are responsible for this arrangement. Insurers are prepared to treat these pupils as employees, for the purposes of both employers' and public liability insurance, but only if the policyholder concerned informs insurers in advance and, in due course, includes in his wage return an appropriate notional amount of earnings for each pupil.

Public Works Loan Board rates

Effective from March 24

Years	by EPT	A\$	maturity	Non-quota loans A\$	by EPT	A\$	maturity
Up to 5	11 1/2	11 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
Over 5, up to 10	11 1/2	11 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
Over 10, up to 15	12 1/2	12 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2
Over 15, up to 20	12 1/2	12 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2
Over 20	12 1/2	12 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2

* Non-quota loans B\$ are 1 per cent higher in each case than non-quota loans A\$. Equal instalments of principal & repayments of interest (fixed equal half-yearly payments) include principal and interest. † With half-yearly payments of interest only.

General manager for National Benzole

Mr. John M. Sperring has been made director and general manager of NATIONAL BENZOLE COMPANY from today. He succeeds Mr. D. Chadwick who headed the company for six years until retiring. Mr. Sperring joined National Benzole, a BP company, in 1957.

Mr. P. C. Williams has been appointed chairman and continues as group managing director of G. E. WALLIS AND SONS, Mr. R. C. Stevens is divisional managing director of the western division based at Newport, Gwent. Mr. A. H. Baird has been appointed a director, and Mr. A. R. Deacon a director of County Bank, has joined the Board as a non-executive director.

Mr. Bernard G. Lewis, chief executive of Kumpulan Guthrie SDN BHD and Mr. John A. Logan, president of Guthrie North America Inc. and of Ajax Magnethermic Corporation, have been appointed directors of the GUTHRIE CORPORATION.

Mr. Robert D. Wade has become group managing director of LEEDS AND DISTRICT DYERS AND FINISHERS.

Mr. Adrian Rapazzini has joined P. J. REFSO AND CO. to establish and manage the bank's corporate finance department. He was previously a partner of Stoy, Hayward and Co. specialising in financial investigations.

Mr. A. C. Barker has been appointed a director of the BANKERS' INVESTMENT TRUST from April 3.

Mr. R. R. Annesley and Mr. C. J. Wakefield have been appointed executive directors of GREENGARDEN INVESTMENTS. They have resigned from the Board of ENGLISH PROPERTY CORPORATION and

from executive duties within that group. Mr. R. M. Spiro is chairman of Greengarden Investments and Mr. D. A. Llewellyn has been appointed managing director of that concern. Mr. Llewellyn is a former chief executive of EPC.

Mr. Noel Blows has been appointed an associate director of HARLOW MEYER AND CO. foreign exchange brokers, a subsidiary of Mills and Allen International.

Mr. A. E. Repper has been appointed a director of SHEEP-BRIDGE ENGINEERING. He is chairman of Henry Sykes and is also a director of Cape Industries.

Mr. Richard Harbord has been appointed a director of HAYES MILL with responsibility for controlling internal sales. Mr. Robert Stimpson has become managing director of MATHERSON-SELIG. Both companies are members of the Harrison Group.

Mr. Peter C. Palmieri has been elected executive vice-president and manager of IRVING TRUST COMPANY's international banking group, New York. He assumes the duties of Mr. Ernest Schneider, who has returned to Switzerland to become a general manager of Credit Suisse in Zurich. Mr. David M. Macle has been elected a senior vice-president and assumes Mr. Palmieri's duties as division manager.

TEL AVIV

Company	Prices	Change
Bank Leumi	332	+4.0
Bank Hapoalim	327	+6.0
Bank Leumi	327	+6.0
Bank Hapoalim	327	+6.0
Bank Leumi	327	+6.0
Bank Hapoalim	327	+6.0
Bank Leumi	327	+6.0
Bank Hapoalim	327	+6.0
Bank Leumi	327	+6.0
Bank Hapoalim	327	+6.0

WALL STREET

NEW YORK

1978-79	High	Low	Stock	Mar. 30
30	26	26	Abbott Labs	89 1/2
31	26	26	Abbott Labs	89 1/2
32	26	26	Abbott Labs	89 1/2
33	26	26	Abbott Labs	89 1/2
34	26	26	Abbott Labs	89 1/2
35	26	26	Abbott Labs	89 1/2
36	26	26	Abbott Labs	89 1/2
37	26	26	Abbott Labs	89 1/2
38	26	26	Abbott Labs	89 1/2
39	26	26	Abbott Labs	89 1/2
40	26	26	Abbott Labs	89 1/2
41	26	26	Abbott Labs	89 1/2
42	26	26	Abbott Labs	89 1/2
43	26	26	Abbott Labs	89 1/2
44	26	26	Abbott Labs	89 1/2
45	26	26	Abbott Labs	89 1/2
46	26	26	Abbott Labs	89 1/2
47	26	26	Abbott Labs	89 1/2
48	26	26	Abbott Labs	89 1/2
49	26	26	Abbott Labs	89 1/2
50	26	26	Abbott Labs	89 1/2

STOCK

1978-79	High	Low	Stock	Mar. 30
51	26	26	Abbott Labs	89 1/2
52	26	26	Abbott Labs	89 1/2
53	26	26	Abbott Labs	89 1/2
54	26	26	Abbott Labs	89 1/2
55	26	26	Abbott Labs	89 1/2
56	26	26	Abbott Labs	89 1/2
57	26	26	Abbott Labs	89 1/2
58	26	26	Abbott Labs	89 1/2
59	26	26	Abbott Labs	89 1/2
60	26	26	Abbott Labs	89 1/2
61	26	26	Abbott Labs	89 1/2
62	26	26	Abbott Labs	89 1/2
63	26	26	Abbott Labs	89 1/2
64	26	26	Abbott Labs	89 1/2
65	26	26	Abbott Labs	89 1/2
66	26	26	Abbott Labs	89 1/2
67	26	26	Abbott Labs	89 1/2
68	26	26	Abbott Labs	89 1/2
69	26	26	Abbott Labs	89 1/2
70	26	26	Abbott Labs	89 1/2

STOCK

1978-79	High	Low	Stock	Mar. 30
71	26	26	Abbott Labs	89 1/2
72	26	26	Abbott Labs	89 1/2
73	26	26	Abbott Labs	89 1/2
74	26	26	Abbott Labs	89 1/2
75	26	26	Abbott Labs	89 1/2
76	26	26	Abbott Labs	89 1/2
77	26	26	Abbott Labs	89 1/2
78	26	26	Abbott Labs	89 1/2
79	26	26	Abbott Labs	89 1/2
80	26	26	Abbott Labs	89 1/2
81	26	26	Abbott Labs	89 1/2
82	26	26	Abbott Labs	89 1/2
83	26	26	Abbott Labs	89 1/2
84	26	26	Abbott Labs	89 1/2
85	26	26	Abbott Labs	89 1/2
86	26	26	Abbott Labs	89 1/2
87	26	26	Abbott Labs	89 1/2
88	26	26	Abbott Labs	89 1/2
89	26	26	Abbott Labs	89 1/2
90	26	26	Abbott Labs	89 1/2

STOCK

1978-79	High	Low	Stock	Mar. 30
91	26	26	Abbott Labs	89 1/2
92	26	26	Abbott Labs	89 1/2
93	26	26	Abbott Labs	89 1/2
94	26	26	Abbott Labs	89 1/2
95	26	26	Abbott Labs	89 1/2
96	26	26	Abbott Labs	89 1/2
97	26	26	Abbott Labs	89 1/2
98	26	26	Abbott Labs	89 1/2
99	26	26	Abbott Labs	89 1/2
100	26	26	Abbott Labs	89 1/2
101	26	26	Abbott Labs	89 1/2
102	26	26	Abbott Labs	89 1/2
103	26	26	Abbott Labs	89 1/2
104	26	26	Abbott Labs	89 1/2
105	26	26	Abbott Labs	89 1/2
106	26	26	Abbott Labs	89 1/2
107	26	26	Abbott Labs	89 1/2
108	26	26	Abbott Labs	89 1/2
109	26	26	Abbott Labs	89 1/2
110	26	26	Abbott Labs	89 1/2

Indices

NEW YORK - DOW JONES

Mar. 29	Mar. 28	Mar. 27	Mar. 26	Mar. 25	Mar. 24	High	Low	Since Comp'n
Ind. 100	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17
Transp.	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17
Utilities	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17
Trading	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17

Day's high 870.58 low 858.11

Ind. div. yield %	Mar. 25	Mar. 16	Mar. 8	Year ago (approx)
	5.75	5.80	5.87	6.15

STANDARD AND POORS

Mar. 30	Mar. 29	Mar. 28	Mar. 27	Mar. 26	Mar. 25	High	Low	Since Comp'n
Ind. 100	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17
Transp.	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17
Utilities	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17
Trading	252.17	252.17	252.17	252.17	252.17	252.17	252.17	252.17

Ind. div. yield % 5.75 5.80 5.87 6.15

Ind. P/E Ratio 8.56 8.58 8.44 8.48

Long Gov. Bond Yield 8.98 9.08 9.03 8.15

EUROPE

AMSTERDAM

Mar. 30	Price	+ or -	Div. %
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6

BRUSSELS/LUXEMBOURG

Mar. 30	Price	+ or -	Div. %
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6
Amstel (F.20)	122.5	-0.5	8.6

N.Y.S.E. ALL COMMON

Mar. 30	Mar. 29	Mar. 28	Mar. 27	High	Low
30	252.17	252.17	252.17	252.17	252.17
29	252.17	252.17	252.17	252.17	252.17
28	252.17	252.17	252.17	252.17	252.17
27	252.17	252.17	252.17	252.17	252.17

MONTECARLO

Mar. 30	Mar. 29	Mar. 28	Mar. 27	High	Low
30	252.17	252.17	252.17	252.17	252.17
29	252.17	252.17	252.17	252.17	252.17
28	252.17	252.17	252.17	252.17	252.17
27	252.17	252.17	252.17	252.17	252.17

TORONTO COMPOSITE

Mar. 30	Mar. 29	Mar. 28	Mar. 27	High	Low
30	252.17	252.17	252.17	252.17	252.17
29	252.17	252.17	252.17	252.17	252.17
28	252.17	252.17	252.17	252.17	252.17
27	252.17	252.17	252.17	252.17	252.17

JOHANNESBURG

Mar. 30	Mar. 29	Mar. 28	Mar. 27	High	Low
30	252.17	252.17	252.17	252.17	252.17
29	252.17	252.17	252.17	252.17	252.17
28	252.17	252.17	252.17	252.17	252.17
27	252.17	252.17	252.17	252.17	252.17

JOHANNESBURG

Mar. 30	Mar. 29	Mar. 28	Mar. 27	High	Low
30	252.17	252.17	252.17	252.17	252.17

FINANCIAL TIMES SURVEY

Monday April 2 1979

مكتبة الشرق

West Berlin

Although it is Germany's largest industrial city, West Berlin remains viable only with the considerable financial support it receives from the Federal Republic. But its problems have often been vastly exaggerated and the city has managed to adapt well to living behind the border of Communist East Germany.

Battling against the odds

By Jonathan Carr

WEST BERLIN is alive and well—and remains one of the democratic world's most rewarding cities although it lies more than 100 miles behind the border of Communist East Germany.

Some used to think that West Berlin would be swallowed up by the Communist world, if not through direct military action then by other external pressures which would make life there impossible. When this proved to be incorrect it became fashionable to suggest that the city, drained of vitality by its internal problems and its unique political position, would simply fade away. It must be stressed therefore that reports of West Berlin's impending demise have been vastly exaggerated.

Of course, West Berlin has big problems—many but by no means all matched in other major European cities. These problems were for a long time largely ignored by non-Berliners

because of the city's international political importance. Berlin was the "outpost of freedom," the city of the attack on the Wall—the place where the Cold War was most visible.

It is a tribute to the success of the Four-power Berlin Agreement, and of the subsequent accords between East and West Germany, that this fascinating but unsettling political role is less often talked about now. As the excitement of the initial thrust of the "Ostpolitik" at the start of the 1970s began to dwindle, West Berlin became a more normal city and problems which had long existed, began to public view.

True, West Berlin remains the largest industrial city of Germany (or, as one commentator with an interesting perspective put it, the most significant industrial centre between Paris and Moscow). But it is not viable without big financial support from the Federal Republic. Raw materials must be brought in from the West at great cost and the city has to provide its own power supplies, without the backing of a larger grid at times of peak demand.

Then, West Berlin has no real hinterland and no commuters from the countryside. Those who leave the city go right away and are usually lost to Berlin for good. The population, which has been declining now stands at about 2m and is likely to drop further. This is partly because for years more people have been leaving than have been moving in—although

a near balance now seems to have been gained. But it is also because the death rate markedly exceeds the birth rate, not a problem in West Berlin alone but particularly acute there.

Berlin has had its scandals too. Some mirrored those occurring in West Germany—for example in the building industry, a boom sector where some over-reached themselves and went bust when the economic downturn came. Others were the familiar signs of a political leadership long—some said too long—in office.

But the democratic checks and balances have operated well enough. The Social Democrats (SPD) who have always held Government office in West Berlin, had to go into coalition with the Liberal Free Democrats (FDP) in 1975. The SPD then stabilised its position under a new and effective governing mayor, Herr Dietrich Stobbe, and the SPD-FDP alliance was confirmed in elections last month, despite a strong opposition challenge.

Finally—neither a problem, nor a scandal, but a mystery: even well-informed West Germans tend to be stuck for an answer when asked to define West Berlin's status. The city is, after all, a land (state) of the federation according to German law—but supreme authority remains in the hands of the four wartime Allied powers.

The city is incorporated in the economic and legal system of the Federal Republic and close to 30,000 federal employees work there. But, as the four-power

agreement points out, West Berlin is not a constituent part of the Federal Republic and is not governed by it (although ties between the two can be maintained and developed). Little wonder that American Presidents have been known to make

comments indicating that they will defend West Berlin to their last breath, but that they are not wholly clear precisely what sort of entity they are supporting. Much of this may seem discouraging—or at the least disorientating. The modern

German writer Hans Magnus Enzensberger caught the mood well enough when writing about the German states: "We belong," he said, "to two parts of a whole that does not exist. Two parts, each of which denies being a part, and each presents itself in the name of the whole. . . . This condition is regarded as at once temporary and definitive—the provisional is inviolable."

How then can relative optimism about the future be justified? Some reasons are political (and described in more detail elsewhere in this survey). The two German states are gradually improving contacts and relations between them. This process has benefited Berlin already and surely will continue to do so.

But it is also worth standing back and taking a look at the historical perspective. Even the city's division is not as modern a phenomenon as many might imagine. Berlin was born from two trading towns on either side of the River Spree which viewed each other with distrust even after their leaders had agreed on a common town hall at the start of the 14th century. Each was under geographical and economic pressure to cooperate with the other—and with time this is what happened.

United Berlin had many crises. Today the population decline is a matter for concern. But it is worth recalling the shocking setback of the 30 years war in the 17th century when the town, by then an important trading centre, was made by warring parties to pay tribute to

each but was finally sacked. The population of about 10,000 dropped by almost half, yet decades later Berlin was more important than before and by the time it became the capital of the German empire in 1871 nearly 1m people lived there.

The First World War, hyperinflation, strikes and street violence gave way to the "Golden Twenties" when Berlin confirmed its industrial and cultural pre-eminence. Then came the era of Nazi power, another war, destruction and a 1.5m drop in population to about 2.8m. The recital of such figures hardly helps comprehension of the disaster. It is much more striking to stand nearly 400 feet up on Berlin's "Trummerberg" mountain and recall that it was built from war debris.

Vitality

Immense vitality: the ability to make a comeback against all odds, is the common thread which runs through the city's history. Despite the departure of many former Berliners for the West and the arrival not only of other Germans but many foreigners too, there remains a Berlin "flair"—recognisable even to those who first learned of the city's character from books written decades earlier.

Part of that quickness of mind and sardonic sense of humour, which many West Germans find uncomfortable about Berliners, may even be of French origin. Thousands of Huguenots who fled their homes after the revocation of the Edict of Nantes in 1685, settled in Berlin. Can that be why Berlin

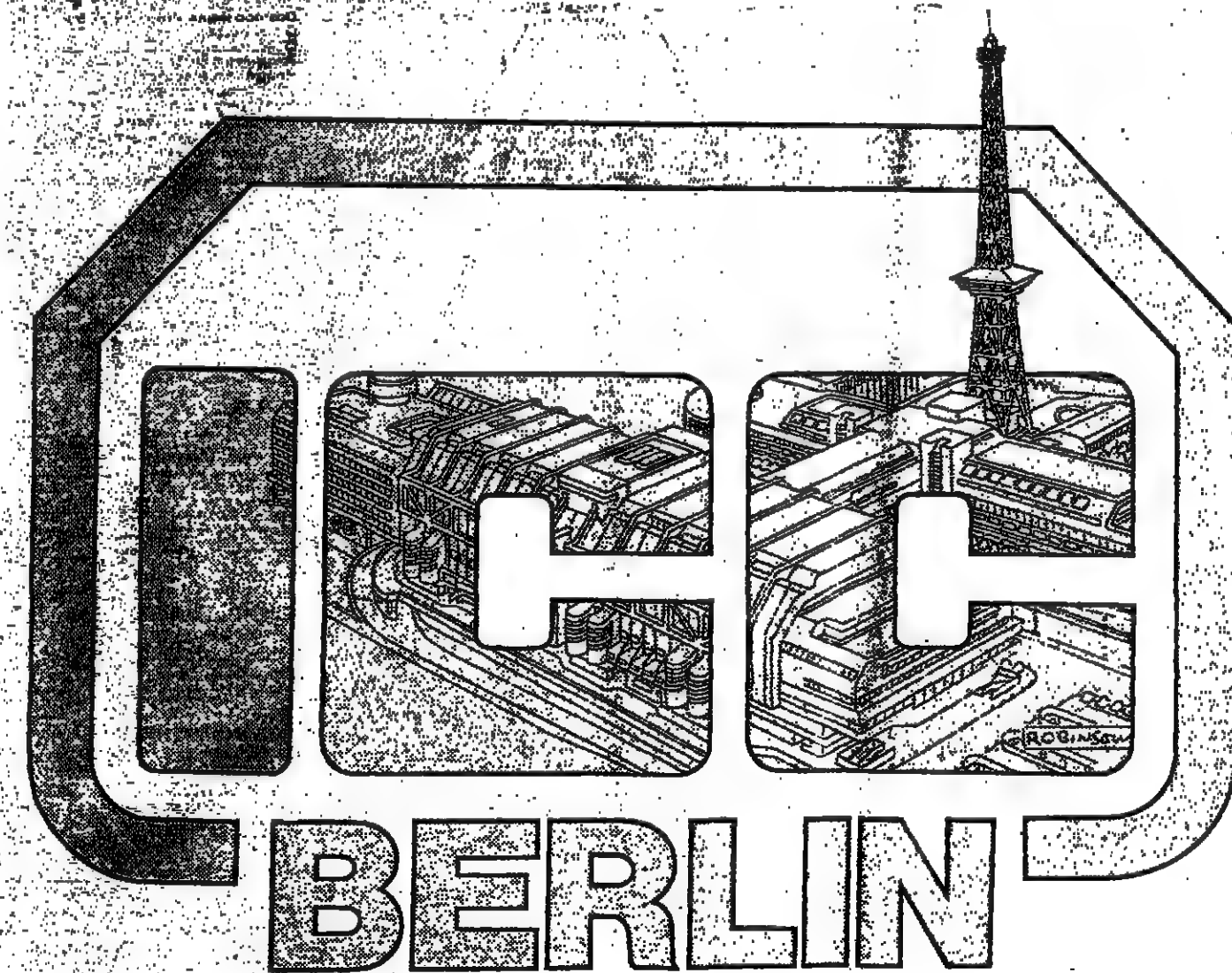
cabarets, political and otherwise, have a flavour which often evades those in Hamburg and Munich (unless, of course, they are run by transplanted Berliners?) Might it not also help explain why Berliners can give a peculiarly clear-sighted, logical critique of the West German way of life even as they benefit from its successes—a richly ironic situation which Berliners will wryly acknowledge.

Despite several rival claims, Berlin is still the only German city with the "feel" of a capital about it. This is not simply because of the reminders of the past—the Reichstag (where parliamentary groups still meet from time to time), the Brandenburg Gate, Charlottenburg Palace and so on. Nor is it a question just of injections of outside money. It has much to do with preservation of tradition—even though so many factors have told against this.

There could be many examples, culturally and otherwise. One will suffice: a concert in February given by the peerless Berlin Philharmonic Orchestra, its members, playing as though their lives depended on it, in their concert hall hard by the wall dividing the Eastern and Western sectors.

The programme noted that exactly 50 years before, the same orchestra had been playing under Furtwaengler with Kreisler as soloist. It is hard to believe that those who performed then would have had anything but praise for their successors. They would surely have found it gratifyingly like the old days.

Berlin — East and West



2nd April, 1979, heralds the start of a whole new conference era.

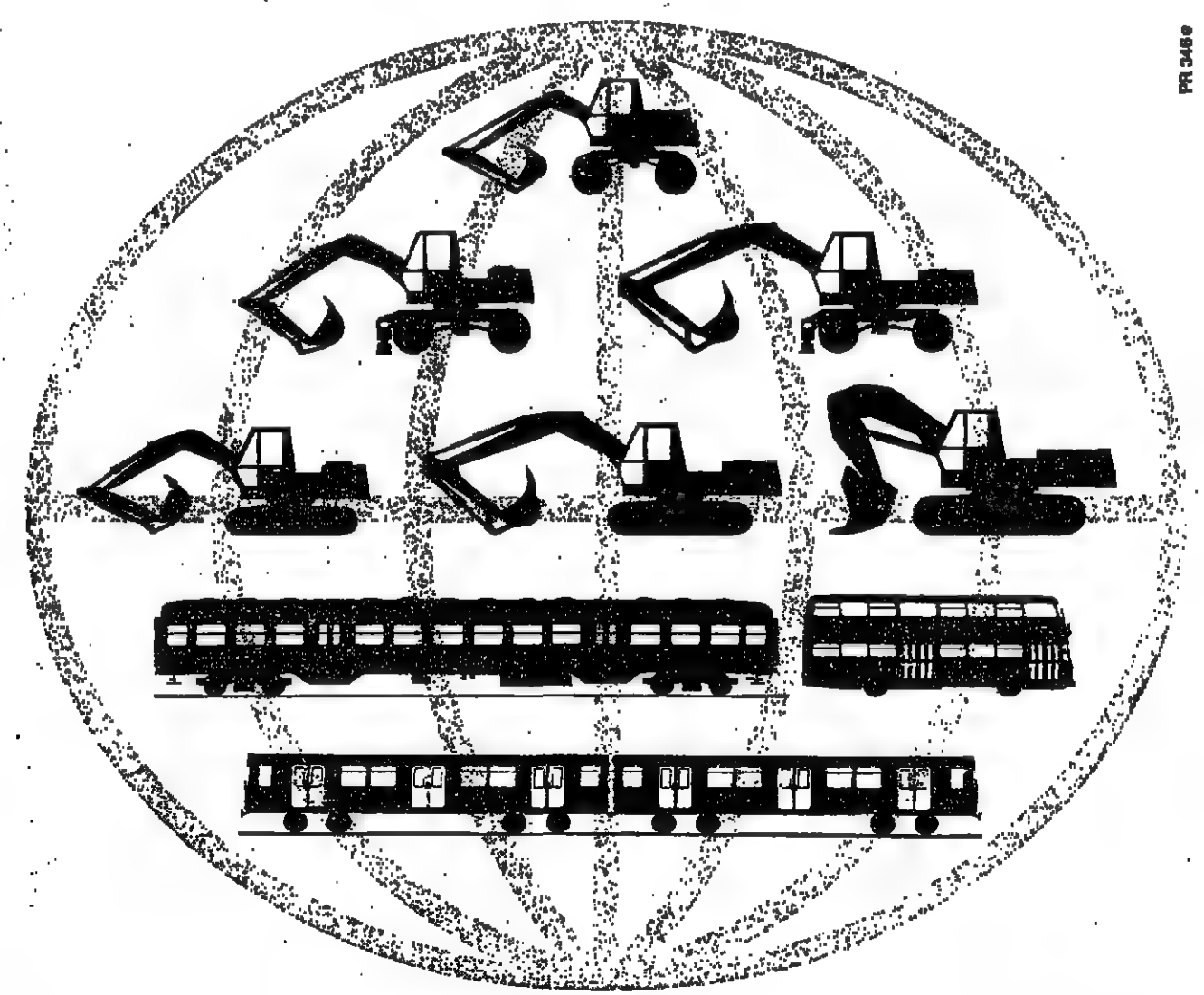
On 2nd April, 1979, the magnificent Opening Ceremony of the ICC Berlin attended by Guests of Honour from around the world. Also ICC Berlin welcomes its first international congress. Welcome to Berlin!



International Congress Center Berlin

AMK Berlin
Company for Exhibition
Plans and Congresses, Ltd.
Ror 101740, Mercedesstr. 22,
D-1000 Berlin 10
International Congress Center Berlin
Rumpelshaus Berlin
Hauptbahnhof Berlin
Deutschlands/Eurocongress Berlin

Contact address:
Spectrum Communications Limited:
Spectrum House, 182/183 Apsley Road,
London W12 9 AX
Telephone 01-7429339



O&K
Founded in Berlin in 1876.
Moving the earth
ever since.

O&K started business in 1876 by devising new economic and faster methods of moving rocks and earth from mines and construction sites. From the very beginning Orenstein and Koppel offered customers more than just railway and earthmoving equipment. They demonstrated opportunities for saving money and increasing productivity. The same could be said of marketing today.



Today the production range of O&K's Berlin works comprises crawler-mounted hydraulic excavators with shovel capacities up to 1.5 cu.m., mobile hydraulic excavators with shovel capacities up to 0.9 cu.m., railcars for underground and metropolitan use, railway coaches of all kinds for passenger traffic, baggage and mail vans, and double decker buses. Products you can rely on.

O&K Orenstein & Koppel Aktiengesellschaft
Berlin works

Headquarters: D-4600 Dortmund 1, W.-Germany · Subsidiary in UK: O&K Orenstein & Koppel Ltd, Watford, Northampton NN6 7XN



BEWAG

energy for Berlin

WEST BERLINERS take for granted the highly efficient way their city of some 2m is supplied round the clock from West Germany and sends back most of its processed goods. This past winter, though, it struck home that not once did West Berlin experience shortages of any kind or cuts in electric power during the severest storms in decades that wrought havoc all around the city.

One little-noticed event illustrated the enormous improvements in West Berlin's position since the Four Power Agreement 30 years ago. Although East Germany was struggling with serious shortages of fuel and railway transport, it diverted extra East German Reichsbahn trains to transport oil from Hamburg to West Berlin.

The annual transport across East Germany of DM 44bn in goods between West Berlin and West Germany takes place with fewer delays than experienced by most large cities. West Berlin's geographic position is to be enhanced in coming years with the construction of an Autobahn linking the city with Hamburg, while freight carried over the canals linking West Berlin and West Germany will be needed to be the reopening of the Teltow Canal in West Berlin, closed after the building of the Berlin Wall. A quarter of all freight carried between the city and West Germany already is shipped by horse.

West Berlin's gross domestic product last year rose 3 per cent in real terms compared with 3.4 per cent in West Germany, an improvement that is expected to continue this year with an increase of 3.5 per cent in GDP for the city against a 3 per cent growth in West Germany.

For several years Berlin investments lagged behind those in the Federal Republic but last year capital goods investment was up 10 per cent and is expected to rise by about 8 per cent this year, or about the same as in West Germany. Philip Morris for example is investing DM 40m to expand its Berlin factory. Bosch is investing DM 35m. Daimler Benz DM 100m and Siemens DM 12m after putting DM 1bn into its factories in the city over the past seven years.

West Berlin's economic life is intertwined with West Germany's, including the vital assistance it receives from Bonn. The Federal Government

this year is paying 51 per cent of the city's budget or DM 8.4bn. West Berlin gets 58 per cent of the economic assistance West Germany grants to regions requiring aid, which is an even higher proportion than a decade ago.

Contrary to some fears when the Four Power Treaty was signed, West Germany has steadily increased its financial support for Germany's largest city. Only last month Bonn agreed to double its yearly subsidy to DM 83m for lowering the fares of passengers using British Airways, PanAm and Air France flights between West German cities and West Berlin. Federally-owned companies placed DM 351m in orders to West Berlin companies last year and Chancellor Helmut Schmidt and the Economics Ministry have leaned on major West German companies to buy from West Berlin companies, all things being equal.

Lucrative

The largest single subsidy to West Berlin, amounting to DM 1.8bn in 1977, is the reduction in the 12 per cent Value Added Tax from between 4.5 per cent to 10 per cent of the price of a product being sent to West Germany. The reduction depends on the value added to the product in Berlin and, before a 1976 ruling that at least 10 per cent of the product's value must be made in Berlin, there were some glaring abuses.

For example, West German coffee roasters found themselves losing their traditional business to West Berlin, and meat slaughtering burgeoned out of all proportion in Berlin where it took little more than a blow to a carcass to qualify for a healthy reduction in VAT. Sticking a label on a bottle of West German liquor and sewing a button on a finished jacket in West Berlin boosted profits considerably. Those indulgent days are over but it is still lucrative enough for many West German and foreign companies to manufacture in West Berlin.

Second, most important among the preferences granted to West Berlin's industry are the income and corporate tax reductions amounting to DM 395m. Corporate taxes are 22.5 per cent lower than in West Germany and income taxes are 30 per cent less. Small wonder that some of the most expensive cars in Germany are driven from Grunewald

mansions to the fashionable restaurants off the Kurfürstendamm. The average Berliner has the highest level of consumption of durable consumer goods among West Germans and, in fact, enjoys 8 per cent more income than in West Germany if he earns up to DM 30,000 a year.

Berlin's investment subsidy is nearly as important and came to DM 384m in 1977. The city will buy a company's factory site for which it then pays 4.5 per cent of the purchase price and gets a hereditary lease. Companies are also reimbursed 12.5 per cent of building costs and the city gives a 35 per cent rebate for investments in machinery and equipment. Low-interest European Recovery Program loans at 3.5 per cent for up to 14 years are made available for investments in buildings and machinery along with other advantageous city credits which amount to DM 126m a year.

A few weeks ago, the West German Bundestag voted to further improve assistance to Berlin by including engineering consultants among the companies allowed VAT preferences. In addition, investment subsidies are raised for the purchase of buildings used for research and development and for data-processing equipment used in providing services for West German companies. The companies profiting the most in Berlin are capital intensive ones that have a high volume of investments, are profitable and sell most of their products to West Germany or export them. A company such as BMW has its entire motorcycle production in Berlin and is now investing DM 180m to build a new factory that will produce cars.

Foreign-owned companies such as Gillette, IBM and IIT have major plants in West Berlin and both BAT and Philip Morris supply the West German and European markets from the city. Schering, the Berlin chemicals and pharmaceuticals company with 10,000 employees, has built up a DM 2.2bn international business from its base in the city but companies of this size are unusual there. The average Berlin company is small to medium-sized with 40 per cent employing up to nine people and another 40 per cent employing from 10 to 100. The loss of industrial jobs is a problem in West Berlin just

as in West Germany and several large companies, especially in industries with structural problems such as mechanical engineering, have closed down. The number of workers in industry fell by another 5,000 last year but steadied late in the year at 172,000, a level it is expected can be held this year but which is down from 285,000 jobs in 1972.

The city extols the advantages to companies of being close to West Berlin's scores of research and development institutes, including the Hahn-Meitner Institute for Nuclear Research, the Heinrich Heine Institute, four institutes of the Max Planck Society, the Federal Agency for Materials Testing, the Institute for Production Technology and Automation as well as the Technical University. West Berlin companies spent DM 540m on research and development in 1977 with the largest amount, DM 327m spent by the electrical industry and DM 169m by the chemicals and pharmaceuticals sector.

Expansion

One area in which additional jobs are being created is the service industry. The number of service employees rose last year by 1.2 per cent to 148,000 or 18 per cent of all employees. They have profited from the city's growing tourism, conventions and trade fairs which have also made necessary an expansion of hotel room capacity by 3,000 new rooms up to mid-1985. The city is now in the odd situation of having to find future hotel employees in Sicily because they are lacking in Berlin along with many other skilled workers.

West Berlin has made considerable efforts to attract West German workers to the city, whose population fell by 17,500 last year largely because of the excess of deaths over births. Estimates have the city declining in population to 1.7m by the turn of the century, by which time it may have started attracting people from more overcrowded regions. The number of foreigners in West Berlin is continuing to rise and will reach 210,000 this year, making one in every ten West Berliners a foreigner or a first generation German.

Leslie Colitt

Berlin correspondent

BHI



Your Bank in Berlin...

BANK FÜR HANDEL UND INDUSTRIE

Subsidiary of Dresdner Bank

Head Office:
Berlin 12, Uhlandstraße 9-11, Ecke Kantstraße
Telephone 3196-1

Six times Europe's businessmen were asked which newspapers they read.

Six times
the same paper came out on top.

There are currently six major readership surveys of the European marketplace, each of which confirms the position of the Financial

Times as Europe's business newspaper.

These six surveys are the European Businessman Readership Survey (EBRS), the Pan European Survey, the European Institutional Investors Research (EIIIR), the Survey of Senior Financial Officers in Europe, the Survey of Senior Financial Managers (Worldwide), and the European Money Markets Readership Survey.

In each, the findings showed the Financial Times to be well ahead of all its rivals in its coverage of these large and vitally important markets. And now that the FT is printed simultaneously in London and Frankfurt, this dominance is bound to increase.



If you'd like to have all the facts and figures at your fingertips, you'll find them concisely set out in the

third and latest edition of 'The Financial Times Survey of Surveys'. For your free copy of this invaluable document, contact Gillian Hall on 01-248 8000 (extension 581), or write to her in London at the address below.

We've called ourselves Europe's business newspaper for some time now. Once again, it's a claim conclusively justified—six times over.

FINANCIAL TIMES
EUROPE'S BUSINESS NEWSPAPER

Bracken House, 10 Cannon Street, London EC4P 4BY.
Telephone 01-248 8000. And at Frankenallee 68-72,
D-6000 Frankfurt am Main 1. Telephone 7598-1.

IT IS revealing and thought-provoking to revisit East Berlin after 19 years of absence. The first time (three days before the building of the wall in 1961) the contrast with the western sector was sharp enough. West Berlin was described as the "glittering shop window of the democratic world," and while the city has always been more than a window, the description, within its limits, was fair enough. East Berlin, on the other hand, had few shop windows to speak of, glittering or otherwise. The architecture appeared to be either bombastic "wedding cake" style, after the Soviet pattern, or dull blocks of dwellings, after nobody's style in particular. Colourless, lifeless—it was a pleasure to move on to the relative cheer of Warsaw.

Today those who know other East European capitals well are inclined to talk of East Berlin as the shop window of Communism. There seems little reason to challenge this judgment. The city appears quite full of Poles, Russians and others viewing the products of the East German "Wirtschaftswunder" with that same uneasy admiration which Western European visitors accord the main cities of the Federal Republic. By comparison with the East Berlin of 19 years ago, the shops, the products, some of the main buildings in the centre mark a striking advance. Even the people seem to have changed—or it is just that they are better dressed. It is not like West Berlin nor, perhaps, would one choose to live there oneself. But it is only fair to report the existence—for those not so far aware of it—of two shop windows in the former capital of the German Reich.

Where is the development leading? It is the obvious question, not to be answered definitely. So far as one can discover, by anyone. The Germans are extraordinarily diligent in the West, in the East, one German commentator noted earlier this year. "Does that really link them together? I'm just not sure."

The point is that the Germans, through deft, have received the opportunity to forge closer links—and they have used them. They are doing so more than ever at a time when for many in the West the

"Ostpolitik" of former Chancellor Willy Brandt has almost dropped out of sight. It is worth glancing back at what has been happening. The key was the Four Power agreement (the United States, the Soviet Union, Britain and France) on Berlin, of September 3, 1971. That did not mark the start of Ostpolitik—Bonn had already signed agreements with the Soviet Union and Poland in the previous year. But it was the four-power accord which laid the basis for future advance in three main ways.

First, the Soviet Union for the first time in treaty form recognised the close ties between West Berlin and the Federal Republic and agreed that these should be developed. It is true that there have been repeated squabbles over this part of the text, with each side interpreting the word "ties" in the way best to suit itself.

Quarrel

It could well be that another quarrel will arise shortly over the participation to West Berlin in direct elections to the European Parliament. But one only has to compare the level of these disputes with the dangerous situation which existed before 1971 to recognise the extent of the progress made.

Second, transit traffic by road, rail and water through East Germany to West Berlin was not only to be unimpeded but would receive preferential treatment. This, too, was a major benefit, bearing in mind the repeated harassment to which Berlin's land lifelines had been periodically subjected—and to which they could be subjected again without treaty regulation. Some may recall this laconic message: "Due to a technical defect on the railway the transport administration of the Soviet military administration in Germany was forced to halt passenger and goods traffic on the line Berlin-Torun June 23, 1948. It Helmut in both directions..."

of the Berlin Wall. The agreement, the result of hundreds of hours of negotiations between the Western Allies and the Russians, was followed by further detailed, difficult talks between the East and West Germans, who signed their own treaty, regulating general relations in 1972.

A few figures will indicate the extent to which these agreements have made their impact—the extent to which the wall has become "porous" as it were. West Berliners are allowed to visit East Berlin and East Germany for up to 30 days a year. Last year West Berliners alone made more than 3.2m such visits—some just for part of the day, some for longer. At the same time almost the same number of West Germans visited East Germany (against 2.2m in 1973). The number of East Germans coming the other way is much lower—confined, at present, to those of pensionable age or those who wish to visit the west for "urgent family reasons." Nonetheless the total last year was 1.4m. Even the statistics for telephone calls show how the situation has changed. In 1970 there were still no direct calls from West Berlin to East Berlin and East Germany—in 1976 there were more than 7m.

Beyond this growing network of personal contacts, which clearly must have an impact on the ideas and judgements of both sides, official talks have been going on. The most notable outcome was last November when the two German states signed a series of long-term agreements to strengthen further West Berlin's ties with West Germany—while providing East Germany with more hard currency. (It has to be noted that the West Germans have paid huge bills for many of the advantages gained over the years. The argument is that if the Berliners gain, which they obviously do, and the East German people benefit, which presumably they must be some degree, then it is a price worth paying. The East Germans are, after all, Germans.)

The main element in the new accord in construction of a new motorway between Hamburg and West Berlin across East Germany. This is important, incidentally, not only to the Germans, but also to

Czechoslovakia and Hungary, which make big use of Hamburg port. Further, it was agreed that East Germany will reopen the Teltow Canal—thus shortening the barge trip from West Germany to West Berlin by two days. Talks are to go ahead on further improvements and meanwhile other official but non-governmental contacts are gathering pace. For example, a smiling Herr Eugen Loderer, head of the West German metalworkers union IG Metall, could recently be seen in East Germany, agreeing that he and his East German colleagues did not see eye to eye on everything, but that they found it useful to have contacts and develop them.

Responses

The word "reunification" has been deliberately avoided since it arouses so many emotional responses as to make further consideration of the question difficult. (It is worth recalling, however, that the preamble of the Federal Republic's basic law [provisional constitution] says that "the entire German people are called upon to achieve in free self-determination the unity and freedom of Germany.") But if a key aim of Ostpolitik was to bring the two halves of Germany closer, to move towards a situation in which the Berlin wall became increasingly irrelevant, then it is fair to assess the policy as already a success—and, barring a serious rise in tension between the super-powers, likely to become still more so.

Leaving aside policies for a moment, it is worth recalling a song by Herr Wolf Biermann, the West German satirist who chose to live in East Germany but, who was prevented from returning there after a concert tour in the West in 1972. Called "Deutsches Miserere" he sings of the people of Europe who, perhaps, are fortunate because Germany is divided into two hostile parts. But the wall will come down, he insists, and much will change on both sides. Politicians are not renowned for taking much notice of troubadours—even good ones. Perhaps in this case they should think again.

Jonathan Carr

مكتبة الشعب

Congress centre on the grand scale

WHEN THE International Congress Centre is opened in West Berlin today by President Walter Scheel of West Germany before an audience of 7,000, the sheer size of both the event and the building will strike many Germans as typical of the brash Berliners and their sprawling city.

The accompanying concert on the congress centre's grand stage by the Berlin Philharmonic Orchestra, under Herbert von Karajan, and the following day's concert by Karl Böhm and the Vienna Philharmonic will demonstrate that no less attention has been paid to the aesthetics of the building's enormous multi-purpose halls than to their commercial viability.

The opening of this DM 800m (\$210.5m) futuristic structure is designed to help make West Berlin the first-ranking convention city in Germany.

The silver-sheathed building, which appears to glide along its site like some gigantic opened matchbox, exudes the energy that typifies this city at its best. Situated next to the sprawling Berlin Exhibition Grounds and linked to them by a three-storey flying bridge, the building also represents the city's even more ambitious goal to become one of the world's foremost convention centres.

Convention-goers will certainly appreciate the centre's siting, five minutes by bus or underground from the heart of West Berlin and less than 10

minutes from the airport by car.

Currently, the city ranks with Munich and Hamburg as one of the leading German convention cities, and is in 10th place internationally. The opening of the congress centre is expected to propel West Berlin into first place in Germany, and move the city into sixth or seventh place internationally.

Herr Peter W. Haupt, the building's general manager, says he hopes that by 1985 West Berlin will have risen to third place among the world's convention cities, behind London and Paris.

"There's far more competition between ourselves and convention managers in other German cities than we have with our colleagues in Paris and London," he explains. The reason is that international conventions and conferences wander over the globe, and when they choose to meet in Europe, only one country is considered each time. Most of the rivalry takes place between that country's cities to host the convention, and this also explains why the new Berlin centre is so large.

"This year we will have three events with 5,000 people at each of them," Herr Haupt says, and this will fully utilise capacity. Next year there will be five events of this size.

Depending on the type of convention or conference, the two main halls — separated by the enormous central stage — can

seat more than 8,000 participants, with just over 5,000 in Hall 1 and 3,160 in Hall 2. Hall 1 can also be transformed for working sessions by rapid converting of every other row of seats into desks.

About 2,000 participants can take part in a conference in Hall 2 when seating galleries are lowered from the ceiling, turning the hall into a tiered auditorium. The platform can then be raised to create a ballroom holding 4,000, or a banqueting hall seating 3,200 diners.

A specially-designed Berlin conference chair, supposed to keep occupants' spines from collapsing has been installed in both halls with everything incorporated except for side-rests to permit a conference snooze. In addition to the two main halls, the congress centre has a third auditorium with 870 seats, and seven other rooms seating from 126 to 288 people. Another 70 rooms of various sizes provide more intimate surroundings for working groups.

Among the larger conventions and meetings to be held at the centre this year will be the European Brewers' Convention next month; the Volkswagen Company's shareholders' meeting, with 4,000 participants; a meeting of Daimler-Benz car dealers, a shareholders' meeting of West Germany's largest company, Veba; a jubilee celebration by the Siemens Company; a

world conference by the Hoechst Company; and the German Social Democratic Party's national convention.

A main event next year will be a world convention of the International Bar Association.

From now until 1981, the congress centre is booked solid, with 100 conferences and conventions. Another 270 events are now being worked on, up to 1985, and the centre is negotiating to hold conventions of 67,000 participants in 1987 and 1989.

Benefits

However, Herr Haupt says that convention centres probably can never be made profitable, and the new congress centre is receiving subsidies from the city of about DM25m (£6.5m) annually, in line with other convention centres.

Financial benefits that do accrue will go to the economy of West Berlin, he says, pointing out that the average convention-goer spends DM 250 a day or four times the amount of the average tourist. Participants at the centre's conferences and conventions in the first year of operation are expected to spend about DM 120m in the city's hotels, restaurants and shops.

The organisers of West Berlin's fairs and conventions believe that the city's location in the heart of East Germany,

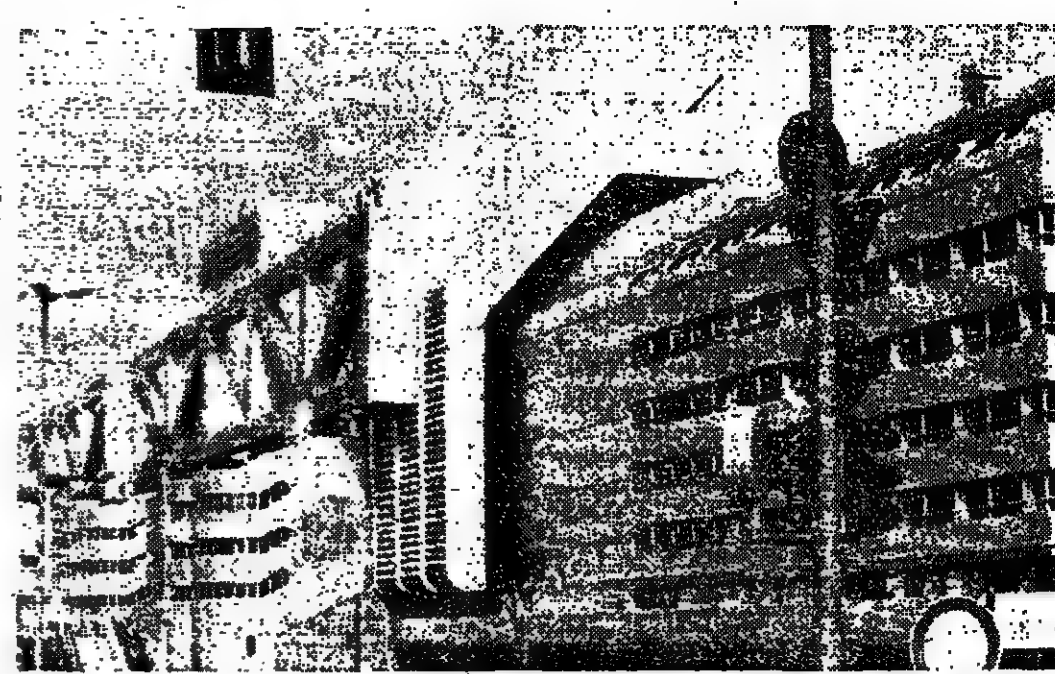
can be turned into an advantage. They point out that East European governments, which are forced to save hard currency, may prefer to have their citizens take part in a conference in West Berlin because they can stay overnight in East Berlin hotels for non-convertible currency, rather than pay for costly trips to the West.

The idea that West Berlin may not be acceptable to East European governments for political reasons is discounted in the city. East European experts are expected at the European Brewers' Convention and the international meeting on East European automobile production because they profit from such contracts.

Similarly, East European participation is heaviest at those West Berlin exhibitions and fairs where East European countries see a direct commercial gain.

All the Comecon countries are regular exhibitors at the International Tourism Exchange, held in the city in March, and which this year had 700 exhibitors from 80 countries and regions. It is regarded as a highly successful event because of the importance of the West German holiday-maker to international tourism.

The International Congress Centre and the adjoining Berlin Exhibition Grounds are seen by their parent organisation, the Berlin Company for Exhibitions, Fairs and Congress (AMK)



The new centre: typical of the brash Berliners

as mutually complementary, because trade and speciality fairs are increasingly being held together with conventions.

The Tourism Exchange, for example, takes place with a congress each year, and the International Green Week and the International Radio and TV Exhibition attract several

hundred thousands and millions of visitors.

in a park-like setting, make West Berlin the fifth-ranking exhibition city in West Germany.

Last year 1.6m people, including 120,000 trade visitors from Berlin and outside, attended exhibitions in West Berlin.

In addition to the Green Week and the Tourism Exchange held earlier this year, the major coming event is the R-dio and TV Exhibition in August, which

attracted 625,000 visitors when

it was last held in 1977.

The Overseas Import Fair in September is another successful event which provides a trade and contact forum on products from developing countries. The German Industries Exhibition, held in Berlin every other year, is to have greater participation than ever from the West German car industry next year.

Leslie Collett

Restoring the city

ONLY A few streets from the pulsating Kurfürstendamm are quiet, tree-lined residential neighbourhoods with small family-owned shops in 1930s Wilhelmstrasse buildings that would long since have been raised to make way for office buildings in most West German cities. West Berlin is guilty of its share of urban mis-planning, but thus far it has been spared the unbroken decades of glass and steel in a mid-city drained of life after war.

The city's abundance of apartments, offices and shops is less a virtue than a product of necessity as West Berlin has no suburban hinterland, leaving its inner-city residents with pre-war housing.

Despite the building of over half a million new flats since the war, and the apparent balance in housing of 1.1m flats to 1.9m inhabitants, newly arrived West Germans say the actual housing shortage is worse than in West German cities. For one thing the city still has over 600,000 apartments heated by coal-burning ovens and 250,000 flats without either bath or toilet or both. The worst housing is occupied by 180,000 foreign workers and their families, mainly from Turkey, while West Berliners and West Germans compete for the better flats.

The city's goal is to modernise 200,000 substandard dwellings in the next 25 years at a cost of over DM 9.5bn, of which DM 7m will be in public funds mainly from West Germany. This marks the most ambitious project in Germany to restore the inner districts of a major city and prevent their decay into slums.

An international building exhibition is to be held in West Berlin in 1984 to demonstrate at first hand how city cores can be revitalised. One can view the results of the 1931 building exhibit on housing estates in green spaces by visiting the Horseshoe, Siemens and Uncle Tom's Cabin housing estates which are still regarded as highly livable in by their occupants.

Renovated

Some 60,000 apartments are to be renovated and modernised as part of the 1984 exhibition, while the old town in Spandau district is to be fully restored with four city squares given back their lost urban quality. Nine thousand new flats are to be integrated into the inner city without sacrificing green surroundings. West Germany is providing DM 45m to reconstruct the former Applied Arts Museum with the help of Polish craftsmen; the Ephraim Palace is also to be rebuilt at a cost of DM 22m and is to house, among other things, the Jewish Museum of Berlin. Yet another restoration is that of the citadel in Spandau, to be completed at a cost of DM 72m with DM 27m coming from West Germany.

West Berlin's postwar cultural complex, arcing toward East Berlin's restored Unter den Linden, has a DM 200m addition, the State Library designed by the late Hans Scharoun. Scharoun was also the gifted architect of the near-by Philharmonic building whose striking in-the-round interior and acoustics make it one of the finest of modern concert

halls. Across the street from the State Library is the by now quiet, tree-lined, residential neighbourhood of the small family-owned shops in 1930s Wilhelmstrasse buildings that would long since have been raised to make way for office buildings in most West German cities. West Berlin is guilty of its share of urban mis-planning, but thus far it has been spared the unbroken decades of glass and steel in a mid-city drained of life after war.

The city's abundance of apartments, offices and shops is less a virtue than a product of necessity as West Berlin has no suburban hinterland, leaving its inner-city residents with pre-war housing.

Amenities

Although Berlin already has more amenities than many other large cities, it is trying to improve their distribution. West Berlin's 360 km of streets with bicycle paths, mainly in the suburbs, are to be expanded to over 500 km including inner districts. The city is well endowed with green areas but the spread is unequal. The southeast district of the city is to get a wholly new park by 1985 when the West German garden show is to be held in Berlin.

Elsewhere, the city has created 20 recreation areas on top of 250 hectares of former garbage dumps containing 100m cubic metres of rubble and waste; DM 67m is being spent on completing this urban land reclamation by the mid-1980s.

Young adults in Berlin are showing increasing interest in a form of Berlin family life that flourished over the years but appeared in danger of being extinguished: the allotment garden. Here families spend their free hours tending fruit trees and flowers and drinking and eating with friends outside their tiny houses. Relief is offered from city pressures which are often only a few hundred yards outside the gates of the garden colonies. West Berlin still has 48,000 of these allotment gardens and, although many of them were eliminated in recent years by road construction, the new policy is to ensure their survival as a stabilising influence in a rootless era.

Ironically, Berliners feel hemmed in when they live in most other cities and the explanation is that Berlin has the largest forest area of any European city. Statistically, there are 36 square metres of woodland for every West Berliner and on warm summer days they lay fall claim to them. More than half of West Berlin's 194 square miles consists of forest, lakes, gardens and parks and in mid-summer there are actually traffic jams involving thousands of boats of all sizes on the Wannsee and on Tegel lake.

West Berlin's statisticians work their limited territory rather intensively and have come up with the fact that all the water frontage in the city adds up to 300 km. In this day and age how many cities are able to spend DM 600,000 a year simply on preserving and planting reeds along their lakes and rivers?

L.C.

BERLIN-CHARLOTTENBURG 1030 AM



Research for Tomorrow's World

The future is daily routine at Heinrich-Hertz-Institute for communications technology. Here basic research goes into the development of new sound and picture transmission systems, such as two-way cable TV, text screen display, laser beam and fiber glass media for storing, transmitting and processing of data. The impact of new technology now under development has yet to be assessed. It will provide new highly qualified jobs, revolutionize office management and open up a whole new dimension of utilizing TV systems for telecommunication.

A total of DM 600 million annually goes into research and development in Berlin. With its 106 institutes, 9 technical colleges, 2 universities and its cultural and scientific background Berlin rightly lays claim to being the Federal Republic of Germany's centre of science and research. For more information turn to Berlin's press and information centre: Presse- und Informationsamt des Landes Berlin 22/79, Rathaus Schöneberg, 1000 Berlin 62.

Research in Berlin

WEST BERLIN IV

Provocative city liked by artists

A FOREIGN theatre director says living in Germany brings out a creative tension between himself and his surroundings because Germans are forever asking provocative questions. He would find Berlin tailor-made for him because it is certainly one of the most provocative cities there is.

Berlin is the youngest of the great European cities and yet it has seen so much it seems to know it all. Divided Berlin is a microcosm of divided Europe and yet the Berliner has had his fill of slogans and ideology.

Berliners in the West partake of the most democratic of societies while Berliners in the East live in the most dictatorial of societies.

Berlin is where the Bauhaus, the German art and design movement, reached its zenith and where a generation later its successors are producing endless imitations. Berlin is where the German and European student revolt was sparked off by a visit to the city 12 years ago by the Shah of Iran.

The student revolt subsided into social democratic reforms for Germany but for the Shah of Iran it turned out to be the beginning of the end.

Berlin is also where the

former mayor, Herr Willy Brandt, confronted the Communists before and after the Wall was built and where he came to the conclusion that butting one's head against the Wall was not going to open it up.

Berlin gave birth to detente in Europe in the early 1970s but it is there that detente also met with the greatest resistance on both sides of the Wall. It is a city where tens of thousands of Germans from East and West meet each day and mainly compare incomes and prices.

Herbert von Karajan conducts what many regard as the world's most sublime orchestra there—the Berlin Philharmonic—and the schools produce adults who usually do not appreciate good music. The city that once created operas, operettas and songs hummed by generations of Central Europeans now imports almost all its popular music from the U.S. and Britain.

Lure

Fifty years ago Berlin turned out an endless stream of quality films for European audiences. Now it is luring West German and foreign film makers with hard D-marks to come and make

films in the city. And the lure may even work.

Berlin may never again have the artistic life it enjoyed between the two world wars, but it does have a growing number of German and foreign painters and sculptors who find the atmosphere conducive to their work. A lot of the credit for this should go to the Artists in Berlin Programme started by the Ford Foundation and taken over by the German Academic Exchange Service.

The programme has brought to Berlin such painters, sculptors, writers and musicians as Edward Kienholz, Peter Sedgley, George Rieck, Dorothy Iannone, Miklos Haraszti, Riek Cluechey, George Tabori, Witold Wirpsza, and Isang Yun, many of whom have decided to stay.

Among the local painters and sculptors with a following are Kurt Mühlenhaupt, whose Berlin primitives are especially popular in West Germany and Bernhard Heiliger, who is mainly a representational painter.

Those who are knowledgeable about the local art scene say too many Berlin artists are more concerned with getting a share of the city's financial support for



artists than they are in achievement on their own. The artists, in turn, criticise the city for engaging in too much cultural representation such as the Twenties Meeting the Seventies in London, the Paris-Berlin

Show in Paris and Berlin Now in New York—all of them great successes—while not nurturing Berlin's arts enough.

So much in Berlin has an unreal, theatrical quality that theatre-going is sometimes a

disappointment. The great student demonstrations of the 1960s and 1970s have died down but some of their theatrical flavour lingers on at the city's annual May Day demonstrations. Berlin, East and West, boasts

no fewer than four competing May Day demonstrations, from the highly organised march-past in East Berlin with thousands of booming loudspeakers, to the clenched fists of the Communist League of West Germany in a working-class district. Young Leftists at the West Berlin demonstration are dressed for the occasion in some of the finest proletarian tailoring seen off the stage of the Berliner Ensemble theatre in East Berlin. Their discipline is nearly as impressive as it was during the student revolt when young Berliners, chanting "Mao Tse-tung" and charging down the fashionable Kurfürstendamm would be stopped in their tracks when the traffic lights turned red.

The Schaubühne am Halleschen Ufer, Berlin's most celebrated theatre, is the place to experience extraordinary acting and staging even of unremarkable plays such as the current Rudl, by Bernard von Brentano. It is being presented in an abandoned former luxury hotel which abuts the Berlin Wall—one of the theatre's temporary venues until its new premises are ready.

The Schaubühne's current 54-hour production of Dean Destruction and Detroit by Robert Wilson, is a treat for those with the endurance to sit it out in the queues and the luck to get tickets. The Schaubühne will be getting a reconstructed DM 70m theatre of its own from the city on the Kurfürstendamm and with the level of public support it is getting, it is hoped that rigor mortis will not set in.

Walk-out

Berlin is the city of cultural festivals with theatre and music festivals in both east and western sectors and the annual West Berlin Film Festival. This February it was interrupted by a classic Cold War walk-out by the East Europeans over The Deer Hunter, a not very inclusive American film about the Vietnam war.

A new festival is being held this year in June called Horizons, the First Festival of World Cultures. It is to be inaugurated by Herr Brandt, in his capacity as President of the North-South Commission.

Dr. Ulrich Eckhardt, director of the Berlin festivals, says one

aim is to help Third World countries strengthen their cultural identities. The idea is to get away from presenting, as he puts it, "African symphony orchestras that play Beethoven" and the first Horizons Festival is to stress Africa south of the Sahara including the cultures of the Caribbean and Latin America which were influenced by Black Africa.

Horizons may even succeed in bridging the gap between a festival and a large city with its musical programme devoted to African pop, beat and rock and African bands appearing at street events all over West Berlin.

Miriam Makeba, who sang at last year's Jazz Days, has been invited to sing along with ten female musicians and singers from Guinea and there will be drummers from Burundi, Yoruba dancers from Nigeria and Afro-soul from the Ivory Coast.

Seminars

African theatre ensembles such as the Ghana Drama Studio, the University Theatre of Tanzania and the Aastumi Theatre will perform and authors from Black Africa will discuss the role of writers in developing countries.

It is evident that no expense is being spared by federal or local government to make sure that West Berlin stays in the mainstream of culture and the arts. This is also the reason the city supports the Aspen Institute of Berlin which, in the few years since it arrived, has brought leading politicians, economists and social scientists to West Berlin for seminars on problems facing the Western, Communist and Third Worlds.

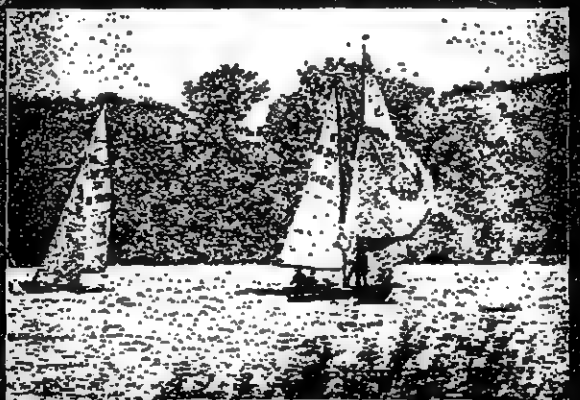
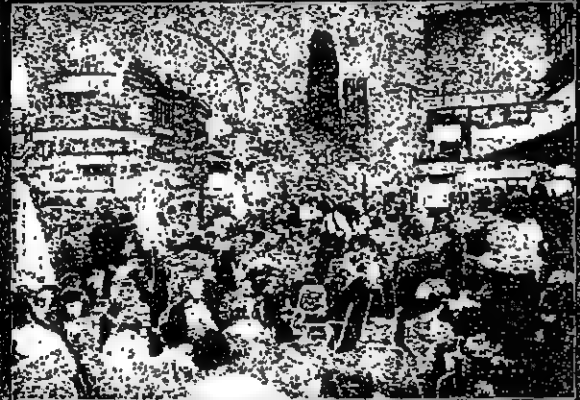
Incidentally, the former capital of forming the empire of Prussia, is planning to hold a spectacular exhibition in two years time called "Prussia," along the lines of the Tendencies of the Twenties art exhibition which was a huge success in 1977.

The mere thought of Prussia causes Germans in other parts and many foreigners to wince, but the exhibition might turn out to be a highly provocative and perhaps eye-opening event.

L.C.

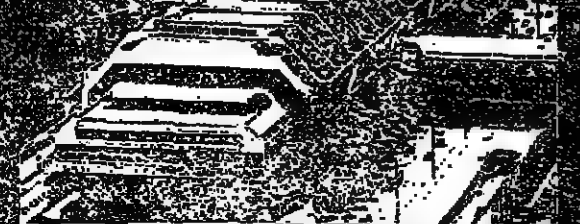
BERLIN

The Convention City That Offers More Than Any Other In Europe.



More service, helpful advice, and choice of sites and facilities...

The Berlin Tourist Office will advise you individually on all aspects of convention planning in Berlin. Who knows Berlin better than we at the Tourist Office? Decades of practical experience in one of the world's largest convention cities offering assistance in all phases of convention booking, organization and implementation—be it a small meeting or a world congress. Good reasons for considering Berlin.



... For conventions, seminars, conferences and congresses ...

We can suggest the perfect facilities and help you arrange optimal service for all your meeting and convention needs. And now, with the opening of our ultra-modern, trend-setting Congress Center, Berlin's extensive assortment of meeting sites will become even more impressive. To provide you with pertinent information for planning a convention or meeting in Berlin, we have prepared BERLIN CONGRESS, a new brochure you'll find invaluable when making future convention decisions and plans. Book Berlin for your convention. You'll be booking quality.

As much sophistication, charm, history, theater, opera, concert, museums, galleries, restaurants and nightlife as you desire.

Contact Berlin.

Contact the Berlin Tourist Office

We would like to get more information. Please, send us the new booklet BERLIN CONGRESS including all important facts about conventions and meetings in Berlin.

Name:

Address:

Berlin Tourist Office
Europa-Center, D-1000 Berlin 30

BERLIN

Business and pleasure:

Aspen Centre's success

THOSE DESIRING peace and quiet in order to think more deeply are wise to look for an island. But those seeking a reminder of the harshest realities of international politics will find it in Berlin. So an island in West Berlin seems the ideal spot for those who want both at the same time.

Since 1974 these conditions have been fulfilled by the Aspen Institute, perched on Schanzewerder Island in the Wannsee lake, on the outskirts of West Berlin. A boat trip one way would take you towards the centre of the city and one the other way would carry you to the border with East Germany.

In the institute's main room with a view out across the water, hundreds of politicians, academics, journalists and others from many countries have gathered over the years to discuss topics ranging from arms control and nuclear energy to education at the end of the century.

Heated

Each meeting is limited to a maximum 24 participants so that the exchange is more intimate and frank than at many other international symposia. But however fascinating the topic and heated the discussion, it is hard to forget at Aspen the political environment to which ideal theoretical solutions must be tailored.

Aspen, Berlin, is an offshoot of that "institute for humanistic studies" which began in 1949 in Aspen, Colorado, with a conference bringing together among others, Albert Schweitzer, Ortega y Gasset and Thornton Wilder. The institute's operating budget now exceeds \$4m— from public and private sources. Its headquarters is in New York and it has a board of international trustees.

Jonathan Carr

a fully integrated banking service

C.M.A. FRANKLIN

Head Office: Osaka, Japan

MINES—Continued

AUSTRALIAN

Dividends Paid	Stock	Price	Last	Net	Div	Yr	Div	Yr	Div
Nov. Apr.	Agnew	132	145	0155	1.0				
	Baccharville 50 Tons	325							
	Ball South	100							
	Central Pacific	249							
Oct. May	Copper Retham 50c	475	143	0100	6				
	Endeavour 2 1/2	16							
	G.M. Kalgoorlie S.L.	72	6 1/2						
	Hecla Gold L.M.	51							
September	Imperial 50c	268	153	0435	2.0				
Dec. Apr.	Macrae Exp. 50c	21							
	M.M. Hides 50c	218	16 10	10 1/2	1.7				
	Minesfield	10							
	Mount Lyell 25c	60							
	Newmarket 20c	20							
June	Nov. North B. Hides 50c	126	15 1/2	10 1/2	1.3				
	N.L. Kalgoorlie	105							
	N.W. Mining	35							
	Nov. North B. Hides 50c	25	7 1/2	0125	1.9				
	Olman N.	20							
	Pacific Copper	80							
	Parnora 25c	90							
	Perseus 20c	20							
Oct. Apr.	Peter-Milled 50c	173	19 1/2	0155	3				
	Southdown Pacific	20							
Oct. May	West-Walling 50c	362	23	10 1/2	0.7				
	Whim Creek 20c	55							

TINS

Nov. Apr.	Arnsal Nigeria	290	26 1/2	2 1/2	1.3				
Nov. Apr.	Oct. Arnsal H.M. S.M.I.	340	27	0300	0.5				
Nov. Apr.	Oct. Bergh Tins	71	31 1/2	0 1/2	0.1				
Nov. Apr.	Oct. Bergh Tins	220	15 1/2	0 1/2	0.1				
Feb.	Oct. Geveler	160	21	16 5/7	0.7				
Nov. Dec.	Geveler & Sons 12 1/2	85	18 1/2	1 1/2	1.8				
May	Nov. Lids Top	70	20 1/2	12 1/2	2.0				
	Hongkong	350	11 1/2	12 1/2	2.2				
Jan. July	Kamming 50c	76	11 1/2	10 1/2	2.2				
Jan. July	Kilgill's S.M.I.	335	21						
Jan. July	Oct. Kilmory S.M.I.	220	16 1/2	12 1/2	0.7				
Mar. Sep.	Alphington	40	27 1/2	4 1/2	1.2				
Mar. Sep.	Pengalton 10p	23	21 1/2	4 1/2	1.2				
Mar. Sep.	St. John's	22	10 1/2	0 1/2	0.2				
Mar. Sep.	Saint Patrick	31	21	12 1/2	0.5				
February	South Crofty 10p	56	21	11 1/2	2.0				
May	Nov. Tins	180	12 1/2	12 1/2	2.0				
May	Nov. Tins	290	26 1/2	10 1/2	1.0				
May	Nov. Tins	270	11 1/2	10 1/2	1.0				
May	Nov. Tins	49	12 1/2	10 1/2	0.8				
May	Nov. Tins	260	23 1/2	10 1/2	0.8				

COPPER

June Dec.	Western R.O. 50c	95	12 1/2	1 1/2	1.1				
-----------	------------------	----	--------	-------	-----	--	--	--	--

MISCELLANEOUS

	Barrym.	67	7 1/2						
Aug. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385	27 1/2						
Nov. Feb.	Nov. 1000 Shares 17 1/2	385							

HUB LORRY
 3 THE MOST
 EFFICIENT AND
 WIDELY USED
600
 GEORGE COHEN MACHINERY LTD
 22-23 SUNBEAM ROAD LONDON
 NW10 6JP TELEPHONE 01-265 6388

Monday April 2 1979

BRC
4
 BARS
 DESIGN
 FABRIC
 WELDMESH

FT BUSINESS OPINION SURVEY

Economic hopes
still at low level

BY DAVID FREUD

INDUSTRY'S confidence about the prospects for the UK economy continued to fall last month, according to the Financial Times survey of business opinion published this morning. Confidence remains at the lowest level since the end of 1976, when the International Monetary Fund deal was being negotiated.

Industrialists were also pessimistic about the general business outlook, with labour unrest, fears of recession and gloomy attitudes to world economic developments the most commonly cited reasons. The survey, conducted in March, covered executives in the building and construction, textile and clothing and food and tobacco sectors. The interviews were conducted well

EARNINGS ON CAPITAL

Those expecting earnings during the current year to:	4 monthly moving total				March 1979		
	Dec-Mar.	Nov-Feb.	Oct-Jan.	Sept-Dec.	Construction	Food & Textiles	Tobacco & Clothing
Improve	42	57	51	49	60	35	54
Remain the same	23	22	19	17	25	27	29
Contract	8	11	17	22	11	19	12
No comment	7	10	13	12	4	19	5

before the likelihood of an early General Election became apparent.

The survey finds some evidence of slackening demand, both at home and abroad, with a decline in prospects for exports and the level of turnover over the coming year.

However, new orders remained at a relatively high level, as did order books, suggesting that the drop in demand has not yet had a serious impact.

One of the main complaints over the conduct of the economy was the unequal level of pay settlements. It was feared that these might lead to further wage inflation and industrial trouble before the end of the current wage round.

While industrialists were slightly less optimistic about the level of wage costs, they were more optimistic on total unit costs.

However, both the building and food sectors expected profit margins to contract, with price competition, as well as wage and cost increases thought likely to be the key reasons. Details, Page 6

THE LEX COLUMN

The Budget that never was

Following the defeat of the Government in the Commons the Conservatives have refused to allow Mr. Denis Healey to present a normal Budget speech tomorrow. Many weeks of work by a top Treasury team have therefore been for nothing. However, from a usually reliable source we have been able to obtain a draft of what the Chancellor had intended to say.

"Since this is to be my final Budget speech, I hope my honourable friends in the House will forgive me if I start on a personal note. I was touched this morning to receive a message of congratulations and thanks from a representative of the Association of Tax Consultants, in grateful recognition of all that I have done for their volume of business since 1974.

"They have presented me with the Golden Loophole award for 1979, an honour which carries with it a free holiday in the Cayman Islands.

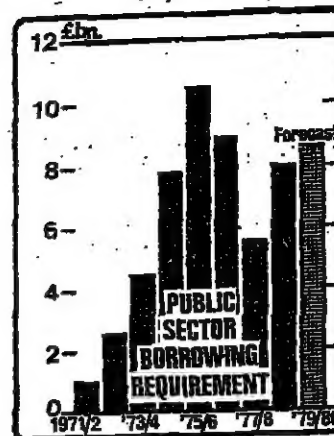
"Messages of congratulations and best wishes have also come from the Society of Gift-Edged Dealers, the Lease Brokers' Federation and the Guild of Investment Currency Traders: the last of which have said they really do not know what they will do when I have gone.

"My period of stewardship is ending with the economy in an unusually healthy state. As you know, sterling has been one of the strongest currencies in the world recently, in spite of the absence of the monthly trade figures, and investors in the City have been literally fighting to buy Government securities.

"Our efforts to stimulate the so-called black economy have been highly successful, and I am grateful to Sir William Pile, Chairman of the Board of Inland Revenue, for his statistical work on the subject. Accordingly today we are publishing revised national income figures which take this unofficial activity fully into account. They show that economic growth last year was not 3 per cent but 8 per cent.

"This was after the implementation of the indexation of income tax allowances which is required by the so-called Rooker-Wise Amendment, a clumsy title which I believe could conveniently be changed to the 'Healey bonus'.

"Plainly this £10bn was an absurd figure, which did not take account of the huge savings in public-sector salary costs which are likely to arise from extensive strike action this year. Moreover, we estimate that the comparability studies to be carried out on public-sector pay will show that salaries



"There is much talk these days about the public sector borrowing requirement—far too much talk in my view, considering that our Government borrowing in this country is so much lower than in many countries overseas such as Turkey, Argentina or Zaire, to name just a few.

"I must say that I have had some difficulty in deciding exactly what the trend of borrowing in the coming financial year was likely to be. You may be aware that the Treasury customarily produces four forecasts of the PSBR during pre-Budget periods.

"One is a ridiculously high one that is leaked to some of the more credulous City analysts so that the figure which is eventually published at the time of the Budget will seem unexpectedly good by comparison.

"The second is an estimate that is discreetly circulated to the Cabinet to persuade the Departments to keep their spending down. The third is the one my officials tell me. But they keep secret their central estimate, the one they really believe.

"The phoney figure which was told to the young men who write brokers' circulars was, you may have noticed from Press coverage, no less than £10bn.

"When but computer programmers learned of the low budgeted figure for the rise in their salaries they immediately went on strike. However, the calculations for the Budget have been carefully checked by my chauffeur.

Stop for Red

"I must, however, make one apology. We have been unable to produce the normal Red Book which customarily accompanies a full Budget statement, because of an industrial dispute in the Civil Service.

"When but computer programmers learned of the low budgeted figure for the rise in their salaries they immediately went on strike. However, the calculations for the Budget have been carefully checked by my chauffeur.

"Plainly this £10bn was an absurd figure, which did not take account of the huge savings in public-sector salary costs which are likely to arise from extensive strike action this year. Moreover, we estimate that the comparability studies to be carried out on public-sector pay will show that salaries

Teamsters confront Carter policy

By Stewart Fleming in New York

TEAMSTERS' UNION has launched the first major challenge to the wage guidelines of President Carter's anti-inflation policy in the U.S.

Early yesterday, weeks of intense talks in the trucking industry over a new three-year wage contract for some 300,000 drivers and warehousemen broke down, even though the two sides were close to agreement.

Mr. Frank Fitzsimmons, president of the scandal-ridden union, announced that he would call selective strikes across the country in an effort to force the employers—and the administration—into accepting an agreement which would almost certainly breach the anti-inflation policy.

President Carter has acknowledged that so far as the wage guidelines are concerned, the settlement in the trucking industry is a critical test. The administration's anti-inflation guidelines have their origins in the Labour Department, which feared that settlements in this year's crucial round of wage negotiations could underpin an even higher rate of inflation.

Mr. Fitzsimmons blamed the talks breakdown on Government intervention in the collective bargaining process.

It appeared both sides had accepted a basic \$1.50 an hour increase on the current average of around \$8.40. Since the negotiations opened, however, it has been recognised that the most difficult part would be to reach agreement on the package of benefits, including such things as pension payments and cost of living allowances. So it has proved.

Weather

UK TODAY

SHOWERS in all areas. Snow on high ground being heavy and prolonged in the north. Generally cold. Max. 10C (50F).

London, S.E., Cent. S. N. England, E. Midlands Sunny intervals, showers. Becoming dry later.

Wales, W. Midlands, W. England, Channel Isles Sunny intervals, showers, wintry on hills. Mainly cloudy later.

Scotland, Ulster, N.E. England Wintry showers or longer outbreaks of sleet or snow. Sunny intervals.

● Outlook: Unsettled. Showers or longer outbreaks of rain in many places. Sleet or snow chiefly in the north. Night frosts.

WORLDWIDE

	Y day	Y day
	midday	midday
Ajaccio	14	17
Algiers	11	12
Amman	7	10
Athens	16	18
Bahrain	26	27
Barcelona	14	17
Beirut	22	23
Belfast	19	21
Bombay	12	14
Bonn	8	11
Buenos Aires	10	13
Calcutta	10	13
Cairo	10	13
Cardiff	10	13
Cebu	10	13
Colon	10	13
Copenhagen	10	13
Dublin	10	13
Edinburgh	10	13
Faro	10	13
Geneva	10	13
Helsinki	10	13
Hong Kong	10	13
Imbros	10	13
Jersey	10	13
London	10	13
Luxembourg	10	13
Madrid	10	13
Manila	10	13
Moscow	10	13
Nairobi	10	13
Paris	10	13
Rangoon	10	13
Rome	10	13
Singapore	10	13
Sofia	10	13
Taipei	10	13
Tokyo	10	13
Washington	10	13
Zurich	10	13

Andreotti resigns as Italy coalition falls

BY PAUL BETTS IN ROME

THE NEW Italian coalition Government of Christian Democrats, Republicans and Social Democrats was defeated in the Senate confidence debate at the weekend by a single vote, opening the way to an early General Election.

After the vote, 150 against and 149 in favour, Sig. Andreotti, the Prime Minister, tendered his resignation to Sig. Sandro Pertini, the Italian President.

Although President Pertini might try to seek a 11th-hour compromise to avoid early elections, a reconciliation between the country's two main parties, the Communists and the Christian Democrats, is generally ruled out at this stage. The President has summoned Sig. Pietro Ingrao, the Communist leader of the Chamber of Deputies, and Senator Amintore Fanfani, the Christian Democrat leader of the Senate, to a meeting today.

The Communists, who are holding their 15th national con-

gress, again declared unambiguously at the week-end that any agreement would have to see direct participation by their party in any new Government. The presence of Communist Ministers in the Cabinet has been rejected equally firmly by the Christian Democrats.

In the face of the deadlock, President Pertini is expected to dissolve Parliament in order to combine the General Election with the elections for the new European Parliament, to be held in Italy on June 10.

Meanwhile, the country's climate of political uncertainty has deteriorated in the light of growing signs of renewed inflation and the possible repercussions of the controversial Bank of Italy affair, which has now caused a significant dispute between the country's political and economic forces and the judiciary.

Official figures released at the weekend show a 1.7 per cent increase in wholesale prices over January, confirming the worrying trend of the past few months.

For their part, the Com-

munist party's national congress that they intend to pursue the hard line that would lead to their opposing any future Government in which they were not directly represented.

That largely reflects the discontent and discomfort that the former alliance with the Christian Democrats provoked within the party and the leadership's attempts to recover the vote on the Communist Party left.

During the two electoral campaigns, Sig. Andreotti's Government would remain temporarily in office as a caretaker administration.

The coalition Government was widely expected to lose the confidence vote because of the opposition of the two main Left-wing parties, the Communists and the Socialists.

Fresh Government funds
up to £150m set for BL

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

FRESH Government funds totalling about £100m to £150m are expected to be announced today for BL, formerly British Leyland.

The money will be cleared for the Industry Bill, which raises the borrowing limits of the National Enterprise Board to £4.5bn, to receive the Royal Assent this week.

This provides BL with the money it urgently needs to push ahead with investment programme. It will enable the NEB to fund both BL and Rolls-Royce in the coming months, despite the uncertain future that some of its activities may face under a Conservative Government.

It seems unlikely that the NEB's five-year corporate plan, which has been with the Department of Industry for some weeks, will be approved before the General Election.

This will give the next Government an immediate

chance to review its proposals without having to recall the plan from Sir Leslie Murphy, chairman of the NEB.

Conservative leaders have made clear that they intend to reduce the NEB's entrepreneurial activities while maintaining it at least to look after lame-duck companies such as BL and Rolls-Royce.

Minister and Whitehall at the intensive discussions in Westminster and Whitehall at the end of last week.

Although there appeared no way that the Industry Bill, which is in the Lords today for its Third Reading, could be held up, it is understood that an informal arrangement has been reached between the Government and Tory Whips in the Lords.

This is that once the Bill receives the Royal Assent, the NEB will make extensive use of its new borrowing powers only to fund BL and Rolls-Royce

during the General Election campaign.

This has some political significance, but should not affect the operations of the NEB, which is unlikely to finalise any major entrepreneurial deals in the coming month. In any case it has £130m of its present £1bn borrowing limit still in hand.

Mr. Eric Varley, the Industry Secretary, is due to announce the new funding arrangements for BL in the Commons in answer to a Parliamentary question on the company's future.

BL needs a further tranche of the £1bn long-term advances agreed by the Government to fund major investment projects, which this year are expected to exceed last year's total of £233m.

The projects include expanding Land Rover and Range Rover production, introducing the "super-mini" next year, and replacing the Marina range in 1982.

Unions seek Whitley break-up

BY PHILIP BASSETT and NICK GARNETT

IN A further bout of inter-union dispute the two biggest Civil Service unions decided yesterday to attempt dismantling the whole national negotiating machinery for the 600,000 civil servants.

On the eve of today's one-day strike over pay, which may seriously affect air flights and other services, the Civil and Public Services Association and the Society of Civil and Public Servants decided to withdraw from all meetings of the central policy-making committee of the Staff Side on the National Whitley Council.

The council, made up of an eight-union staff side and representatives of the Civil Service Department, has negotiated wages and conditions for nearly 60 years.

In a bitter procedural wrangle with other unions and the Government, the two unions, together representing half the civil servants, have decided to inform the national staff side meeting on Thursday that they have no confidence in it and that the present machinery should be wound up.

The executive of both unions, which intend drawing up alternative proposals for a national negotiating system, formally rejected the Government pay offer of 9 per cent, with half the rest of the rises due from a comparability study to be paid on August 1 and the

remainder on March 31 next year.

The Institution of Professional Civil Servants, the First Division Association and the Association of Government Supervisors and Radio Officers are prepared to recommend acceptance.

The Prison Officers' Association has told Ministers that its overtime ban will go ahead until its executive considers the offer on Wednesday. The Civil Service Union and the Inland Revenue Staffs Federation are both unhappy with the offer, since many of their members are low-paid and the offer is weighted toward the higher staff grades.

The present crisis on the staff side stems from a meeting on Thursday, a day before formal pay negotiations, at which Mr. Roy Hattersley, the Prices Secretary and public-sector pay co-ordinator, met general secretaries of five of the smaller Civil Service unions.

Mr. Ken Thomas and Mr. Gerry Gillman, general secretaries of the CPSA and the Society of Civil and Public Servants, said yesterday that they had been deliberately excluded from what was in effect a "secret" meeting on Thursday.

The Civil Service Department and some other unions denied that the meeting was secret, and were adamant that

the two general secretaries had been invited.

A CPSA statement said the union had full confidence in Mr. Bill Kendall, secretary-general of the Staff Side, who was also not at the Thursday meeting, and that the blame for the affair lay at the door of Mr. Hattersley.

Why civil servants strike, Page 27

Continued from Page 1

Carter at N-plant

handling and outcome of the accident. The NRC in Washington has briefed British, Swedish and Japanese representatives, while France and West Germany have flown in nuclear experts.

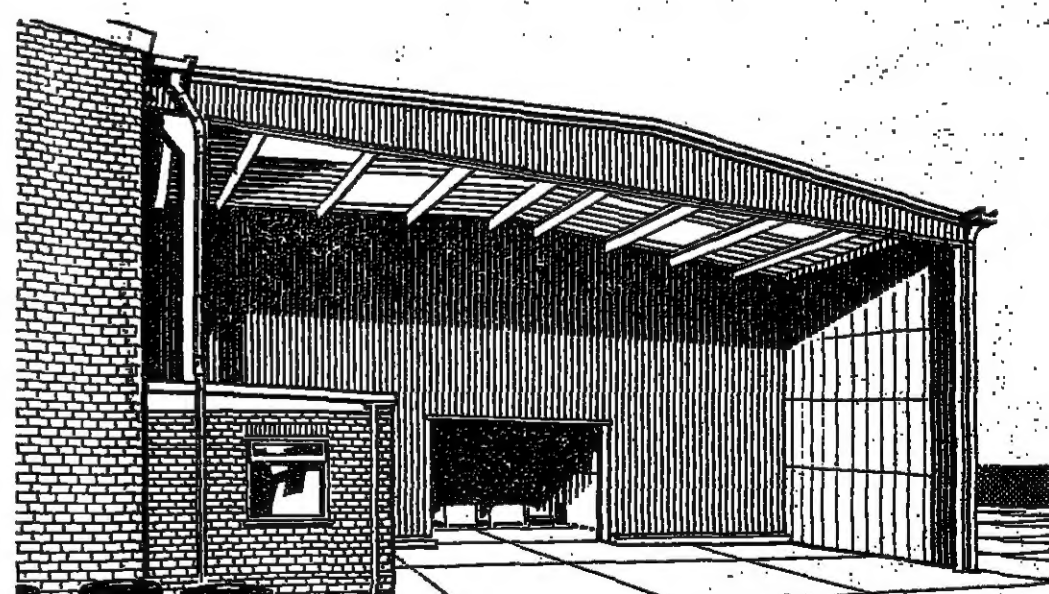
The immediate concern is to keep the large hydrogen gas bubble filling the top of the reactor from reaching any explosive level. Metropolitan Edison said yesterday that gases were being drained from the reactor to prevent this. The second problem is to reduce the size of the bubble, which is big enough to block further cooling of the reactor fuel core.

Severe damage to uranium fuel rods has kept reactor temperature high—still around 280 degrees Fahrenheit—while pressure inside the reactor is being maintained at 1,000 lbs per square inch to stop the

hydrogen gas bubble expanding. The power company has announced that its insurers, C American Nuclear Insurers, will take claims from residents for any expenses of their evacuation and for any damage. Damage to the \$1bn (£500,000) plant itself could run into hundreds of millions of dollars.

Mr. Bruce Millan, the Scottish Secretary, has been urged to stop immediately work on the proposed nuclear power station at Torness in East Lothian. The Scottish Campaign to Resist the Atomic Menace, making an appeal to Mr. Millan yesterday said: "This was the accident they said couldn't happen."

"If Torness is built then a similar threat to that over the people of Harrisburg, Pennsylvania, will hang over the people of East Lothian."

For concrete solutions
to construction problems

Concrete, the way Crendon uses it, provides cheaper, faster solutions to most building problems. Fire resistance is just one of those problems. Crendon frameworks have fire resistance built in. Up to 4-hour ratings can be given. To achieve the same degree of resistance by encasing steelwork after it has been erected is just another way of spending money. Why not consult with Crendon on your next factory or warehouse project and find out early on whether a concrete frame is not going to serve you best after all? But do it before designing gets too far and we'll show you all the fixing and fitting arrangements which Crendon can always precast into a concrete frame.

CRENDON CONCRETE CO. LTD
 Theme Rd, Long Crendon, Aylesbury, Bucks.
 HP18 9BB Tel: Long Crendon 208431
 NORTHEND, Rawliffe Rd., Gt. N. Herts.
 Tel: Gt. N. 4201.
 SCOTLAND: Shotts, Lanarkshire ML7 5BP.
 Tel: Shotts 20261.

CRENDON

Registered at the Post Office. Printed by St. Clement's Press, Ltd. and published by the Financial Times Ltd., Bracken House, Cannon Street, London, EC4A 3DF.
 © The Financial Times Ltd., 1979.

مركز العمل